



January 20, 2006

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RE: Comments for the January 31, 2006 State Water Resources Control Board Workshop on Salinity

Dear Ms. Potter,

The Kern County Water Agency (Agency) is pleased to provide comments to the State Water Resources Control Board (Board) in preparation for the January 31, 2006 workshop on salinity issues in the Central Valley. Kern County is well-known for its water management activities. In fact, the Agency has been a leader in studying surface and groundwater quality in Kern County.

The Agency has not witnessed salinity issues within Kern County with respect to groundwater degradation. In fact, salinity conditions have probably been <u>improving</u> as a result of the large-scale groundwater banking operations in Kern County. These facilities have allowed Kern County to effectively utilize water from several surface sources, including the Kern River, the State Water Project and the Friant-Kern Canal. Generally, the Kern River and Friant-Kern water supplies have lower salinity levels than local groundwater resulting in an overall salinity improvement.

All of the groundwater banking projects in Kern County are governed by Memoranda of Understanding (MOU). The MOUs contain a provision that requires local districts to manage their banking projects to reduce groundwater salinity. I have attached Chapter 5 of the 2001 Kern Fan Area Operations and Monitoring Report. This report was prepared by the Agency for the Kern Fan Monitoring Committee; Chapter 5 summarizes salt loads and balances for recent years. Based on our experience and study, the Agency recommends the Board recognize that local conditions in Kern County are such that state regulation of groundwater salinity is unnecessary. Agency staff will provide additional information regarding Kern County's salinity management and groundwater salinity conditions at the January 31, 2006 Board workshop.

If you have any questions, feel free to call Lloyd Fryer of my staff at (661) 634-1446.

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2001 Kern Fan Area Operations and Monitoring Report

Kern Fan Monitoring Committee

April 2005

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WATER QUALITY

Water quality was determined in monitor wells, recovery wells, and canals both prior to 2001 and during recovery operations in 2001. This data is evaluated and summarized with maps and hydrographs. In addition, a comparison of the average concentrations of total dissolved salts (TDS) in the recharge water and the recovered water is provided. Finally, changes in water quality in the California Aqueduct which resulted from the 2001 recovery program are reviewed.

Sampling Programs

Groundwater Quality Monitoring Program - The semi-annual Groundwater Quality Monitoring Program was completed in August 2001. 80 monitor wells were sampled using the MB91-A Purge Pump Unit. Five casing volumes were pumped and measurements for Specific Electrical Conductivity, pH, and temperature were taken prior to sampling each well. Concentrations of various constituents were determined including gross alpha activity, uranium, DBCP, EDB, nitrate, and irrigation suitability analyses. The results from the water quality sampling were used to construct a map identifying groundwater quality problem areas and also to generate water quality hydrographs for some of the wells.

Recovery Well Sampling - Water samples were taken for Title 22 drinking water analyses on each of the 115 recovery wells used during the recovery program. Approximately 80 constituents were included in the initial Title 22 analyses shown on the Table from the Department of Health Services in Appendix D. Also, a modified version of the Title 22, approximately 45 constituents, was completed after start-up for each well. In all cases, the wells were sampled and the resultant data was reviewed prior to deliveries into the CVC, KWB Canal or Kern River Canal. This data was used to model potential changes recovery program deliveries might have on the California Aqueduct and Cross Valley Canal.

Aqueduct and Canal Sampling - The Kern Water Bank Canal and the Cross Valley Canal were sampled pursuant to the "Interim Department of Water Resources Water Quality Criteria For Acceptance Of Non-Project Water Into The State Water Project, March 1, 2001," in Appendix D. Samples were collected at the outset of the program in March and then one quarter later in June. The samples were analyzed for gross alpha count, arsenic, bromide, hexavalent chromium, nitrate, sulfate, TDS, and uranium. The Department of Water Resources also monitored water quality in the California Aqueduct upstream and downstream of recovery program delivery points. Samples were collected once or twice a month and analyzed for arsenic, bromide, hexavalent chromium, dissolved organic carbon, nitrate, sulfate, and TDS. (Water quality samples were also taken from the Buena Vista Aquatic Lakes and Buena Vista Pump Facility #7, but these facilities were not used to deliver recovered water to the California Aqueduct.) This data was used to validate recovery program modeling and evaluate recovery program impacts. The results of these sampling events are summarized in the last table in Chapter 5C.

Data Evaluation

Groundwater Quality Areas of Concern (AOC) Map - Chapter 5A contains a map showing identified AOCs, modified from the last report. An AOC represents an area where the concentration of a particular constituent approaches or exceeds a Maximum Contaminant Level (MCL). Groundwater quality maps prepared by the Kern Water Bank Authority (KWBA) in January 2001 were most useful in revising this map. These maps summarize historical ranges in concentrations of selected constituents in water from shallow and deep monitor wells and water bank project recovery wells. Several important changes have been made to the previous map. First, TDS has been added. here are two areas of relatively high TDS concentrations, compared to the recommended MCL of 500 mg/l. The largest is beneath the west edge of the study area near Elk Hills. TDS concentrations generally exceed 700 mg/l in shallow groundwater in

this area. For deep wells, TDS concentrations in this area exceed about 500 mg/l. Much higher TDS concentrations are indicated to be present beneath part of the Elk Hills. High sulfate concentrations are also generally present in this high TDS area, and the source of these constituents is likely groundwater inflow from the west. Sulfate concentrations are higher in the deeper groundwater in this area, and exceed 200 mg/l, compared to the recommended MCL of 250 mg/l. Marine deposits are present to the west and contribute both TDS and sulfate to the groundwater. In addition, past disposal of oil field brines in part of the Elk Hills west of the California Aqueduct (Aqueduct) has contributed TDS, chloride, and other constituents to groundwater in this area. TDS concentrations have exceeded 3,000 mg/l in shallow groundwater near a former brine pond. A second area of relatively high TDS is in a localized area near the tank farm in the KWB recharge area east of Enos Lane, about two miles south of Stockdale Highway. TDS concentrations exceeding 3,300 mg/l have been found in water from a shallow monitor well in this localized area. TDS concentrations in water from two recovery wells in the tank farm vicinity that tap groundwater from both shallow and deep strata are about 500 mg/l, and are elevated compared to other more distant wells in the area.

Arsenic concentrations exceeding 50 ppb (the presently applicable MCL) are present in both shallow and deep groundwater in the south part of the identified high-arsenic area. A smaller area of high arsenic concentrations is present in groundwater near Elk Hills, generally in the area where relatively high TDS groundwater is present.

Available data for uranium indicate that it is present at higher concentrations in the shallow groundwater and is usually present at low concentrations in the deep groundwater.

The boundaries of the AOC areas for DBCP and nitrate that were shown on the previous map have not been revised, primarily because of a lack of private well sampling data in the area north of the water banking project recharge sites along the Kern River. Nitrate concentrations in water from most of the water bank project recovery wells are less than 20 mg/l, well below the MCL of 45 mg/l.

The fluoride AOC is entirely southeast of the Kern River, and primarily southwest of I-5. Much of this area is in the western part of the Kern Delta Water District, south of Taft Highway. Fluoride concentrations exceeding the MCL of 1.4 mg/l appear to be associated with fine-grained deposits associated with the old lake beds. Fluoride concentrations in water from most of the water bank project recovery wells are well below the MCL.

In general there have been no verifiable detections of trace organic constituents in the recovery wells.

<u>Water Quality Hydrographs</u> - Water quality hydrographs were prepared for selected chemical constituents, including TDS, alpha activity, nitrate, and arsenic. Time trends in constituent concentrations were particularly evaluated in terms of influences of the recharge and recovery well pumping for the Kern Fan water banking projects. There were a number of indications of improvements in groundwater quality due to recharge of good quality water, particularly for shallow monitor wells in or near recharge areas. TDS is of interest because of the desire to maintain a salt balance, and as a water quality criterion. Nitrate, TDS, and uranium concentrations are generally higher in the shallow groundwater in areas distant from the recharge areas. Arsenic concentrations have become more important because of the lowering of the MCL, and are generally higher in the deep groundwater.

Monitoring results for numerous cluster monitor wells were used in this evaluation for several reasons. First, substantial sampling results are available for some of these wells prior to 1995, based on sampling by the California Department of Water Resources. Second, more frequent water quality analyses are available for these monitor wells than for the individual recovery wells. Lastly, the monitor wells tap groundwater

in particular depth intervals in the subsurface.

The first water quality hydrograph in Chapter 5B shows TDS trends in a number of shallow monitor wells. Decreases in TDS concentrations are apparent following large-scale recharge for Wells T30S/R24E-13D1, and T30S/R25E-4J2. Well 13D1 is near the west edge of the KWB recharge area, where records indicate that about 20,000 acre-feet of water were recharged in 1996-97 and 67,000 acre-feet in 1998 in the West Ponds. Well 4J2 is located near the north edge of the KWB North Ponds, where records indicate that about 40,000 acre-feet of water were recharged in 1996-97 and 25,000 acre-feet in 1998. These TDS decreases were almost 200 mg/l between 1994 and 1998.

The TDS hydrographs indicated an increase in TDS concentrations in water from some shallow monitor wells in 2000-2001. Included were Wells T30S/R24E-13D1, T30S/R25E-4J2, T30S/R25E-7A2, T30S/R25E-16L1, T30S/R26E-6L1, T30S/R26E-28J1, and T30S/R26E-32N1. Wells 13D1 and 4J2 were in areas of recovery well pumping at the KWB lands during 2001. Well 28J1 is in the vicinity of the KWB James K Ponds, and also in an area of significant recovery well pumping in 2001. The temporary TDS increase in water from Well 13D1 was almost 350 mg/l, and the TDS concentrations in water from this well decreased after recovery well pumping stopped. The temporary TDS increase in water from Well 4J2 was about 150 mg/l. The temporary TDS increase in water from Well 28J1 was about 180 mg/l, and then the TDS decreased after pumping stopped.

The second water quality hydrograph in Chapter 5B shows nitrate concentrations for shallow monitor wells. Nitrate concentrations in water from Well T30S/R25E-4J2 decreased from about 35 to 45 mg/l during 1993-95 to about 12 mg/l in 1999. After recharge activities stopped, and recovery began, nitrate concentrations in water from this well increased slightly. Nitrate concentrations in water from Well T30S/R25E-16L were less than the 2 mg/l during 1991-94, and increased to about 20 mg/l by early 1999. Following 1999, nitrate concentrations in water from this well rapidly decreased. Nitrate trends for Well T30S/R24E-13D1 are generally similar to those for Well T30S/R25E-4J2. That is, nitrate concentrations decreased through about 1998 and then rose during 2000-2001. In the area north of well 4J2, high nitrate concentrations were indicated to be present in shallow groundwater by the results of the West Bakersfield toxics study. The nitrate concentrations in water from shallow Well T30S/R26E-16B1 increased during recovery pumping in 1993, from about 5 mg/l to 15 mg/l, then decreased after recovery pumping stopped to the previous range of concentrations.

The third water quality hydrograph in Chapter 5B shows arsenic concentrations in water from selected deep monitor wells. Arsenic concentrations in water from Well T30S/R25E-16L3 were very low prior to some recovery pumping in 1993. Arsenic concentrations in water from this well increased to over 20 ppb by 1994. There were notable decreases in arsenic concentrations in water from Wells T30S/R25E-4J4 and T30S/R25E-16L3 after 1994 and through early 1998. Arsenic conditions in water from Well T30S/R26E-32N3 decreased after 1997. Arsenic concentrations in water from Well T30S/R25E-22R3 generally increased slightly after 1998 and early 1999. Arsenic concentrations in water from a number of deep wells stayed relatively constant during the period of record.

The fourth water quality hydrograph in Chapter 5C is for alpha activity in water from three monitor wells. Alpha activity is an indicator of uranium activities in the groundwater of the Kern fan area. Well T30S/R24E-13D1 is located in an area where the shallow groundwater has alpha activity exceeding the MCL of 15 picocuries per liter for public water supplies. Alpha activity in water from this well averaged about 50 picocuries per liter, and the long-term trend was a relative constancy for alpha activity. The lowest value was in 1999 and the highest value was in 2001. Alpha activity in water from well T30S/R26E-32N1 have also been relatively stable, and well below the MCL. Such activity is considered typical of much of the Kern Fan area, where low uranium activity is present. Alpha activity in water from

Well T30S/R26E-28J1 was generally below the MCL prior to 2000, but increased significantly after 1999, to about 55 picocuries per liter, or near the average value for water from Well T30S/R24E-13D1.

<u>Salt Balance</u> - One of the mandates of the KWB MOU is that "each project within the Kern Fan Area should be operated with the objective that the average concentration of TDS in the recovered water will exceed the average concentration of TDS in the recharged water..." Chapter 5D shows that the TDS of the water recovered from the projects exceeded the TDS of recharged water in all cases, as shown in Figure 5D-1. On the average, the ratio of TDS in water recovered to that recharged was 1.8:1. Thus each project easily met this water quality mandate of the KWB MOU. In addition, the TDS of the water recharged in each of the Kern Fan projects since they began operation and the TDS of the water recovered during the 2001 recovery program is documented in Chapter 5D.

The procedure used by the Kern Fan Monitoring Committee for evaluation of salt load imported to basin is as follows. Gross quantities of water delivered for recharge from the State Water Project (SWP), Friant-Kern Canal (FK), and the Kern River (KR) were tabulated on a monthly basis for each of the following projects – Berrenda Mesa Project, City of Bakersfield 2800 Acres, KWB, Pioneer Property, and the Kern River Channel. The monthly recharge quantities were compiled from Kern County Water Agency (KCWA) records.

The TDS in mg/l for SWP water was assumed to be as set forth in Table 32 of the State Water Project Operations Data published monthly by the State of California. The TDS for FK water was calculated to be an average of 43 mg/l for the year based on 10 samples collected by KCWA between November 1994 and February 2002 (samples ranged from 19 mg/l to 112 mg/l). Data were insufficient to determine monthly values. The TDS of KR water was calculated to an average of 84 mg/l for the year based on 52 samples collected by KCWA and Olcese Water District between March 1990 and September 1997 (samples ranged from 38 mg/l to 148 mg/l).

Total salt load (tons) was then calculated on a monthly basis and summed on an annual basis for each water source and project.

Recovery Program Water Quality Evaluations - The Department of Water Resources (DWR), downstream stakeholders in the Aqueduct, and Kern County banking interests developed water quality guidelines under which banked groundwater can be introduced into the Aqueduct (Appendix D "Interim Department of Water Resources Water Quality Criteria for Acceptance of Non-Project Water into the State Water Project, March 1, 2001"). In essence, these guidelines require that introduced water must not lower Aqueduct quality unless impacts are mitigated. In all cases, drinking water standards must be met. The guidelines identified constituents present in some Kern County groundwater at levels suspected to be higher than the Aqueduct water (e.g. arsenic, nitrate, uranium or chromium) and others that were expected to be less than background which would also provide a benefit to downstream contractors (e.g. bromide, organic carbon, and TDS).

During this first year of large-scale recovery, the banking programs had to predict expected water quality changes for these constituents in the Aqueduct throughout Kern County on a daily basis. This was accomplished using extensive data from well testing, flow rates of individual wells and turnouts throughout the Aqueduct system, and a blending model. The canal sampling which was conducted during the program was then used to validate the results of the blending model as shown on Table 5C-2 "Constituents of Concern Sampling". Overall, the sampling validated the model results summarized in Table 5C-1 "Pump-in Program Blending Calculations".

At the conclusion of the recovery program, the Department of Water Resources prepared a report summarizing the effects of the program on water quality in the Aqueduct (see Appendix E). They concluded that "While some constituents-of-concern were slightly elevated in the Aqueduct by pump-ins, others were reduced." In general, TDS and organic carbon decreased. (Organic carbon in itself is not a regulated constituent, but decreased organic carbon reduces the formation of undesirable disinfection byproducts.) Nitrate and sulfate increased slightly. Arsenic either showed no change or increased slightly. In all cases these constituents were well below drinking water MCLs. It is important to place the above changes (or lack thereof) in proper context; overall, background water quality in the Aqueduct was very good in 2001. In more typical dry years, the beneficial effect of recovery programs will be greater.

CHAPTER 5 LIST OF FIGURES

5B-1	Groundwater Quality Hydrograph - Total Dissolved Solids
5B-2	Groundwater Quality Hydrograph - Nitrate (NO3)
5B-3	Groundwater Quality Hydrograph - Arsenic
5B-4	Groundwater Quality Hydrograph - Alpha Activity
5C-1	Well Manifold Constituent Summary
5C-2	Aqueduct Pump-in Program Summary of Changes
5C-3	Aqueduct Pump-in Program Changes by Location
5C-4	Calculated Monthly Changes in Aqueduct Blend for 2001 Relative to Background
5C-5	Well Contribution by Project and Changes in TDS
5C-6	CVC Pump-in Program Summary of Changes
5D-1	Salt Balance Summary 2001 Kern Fan Groundwater Recovery Program

CHAPTER 5 LIST OF PLATES

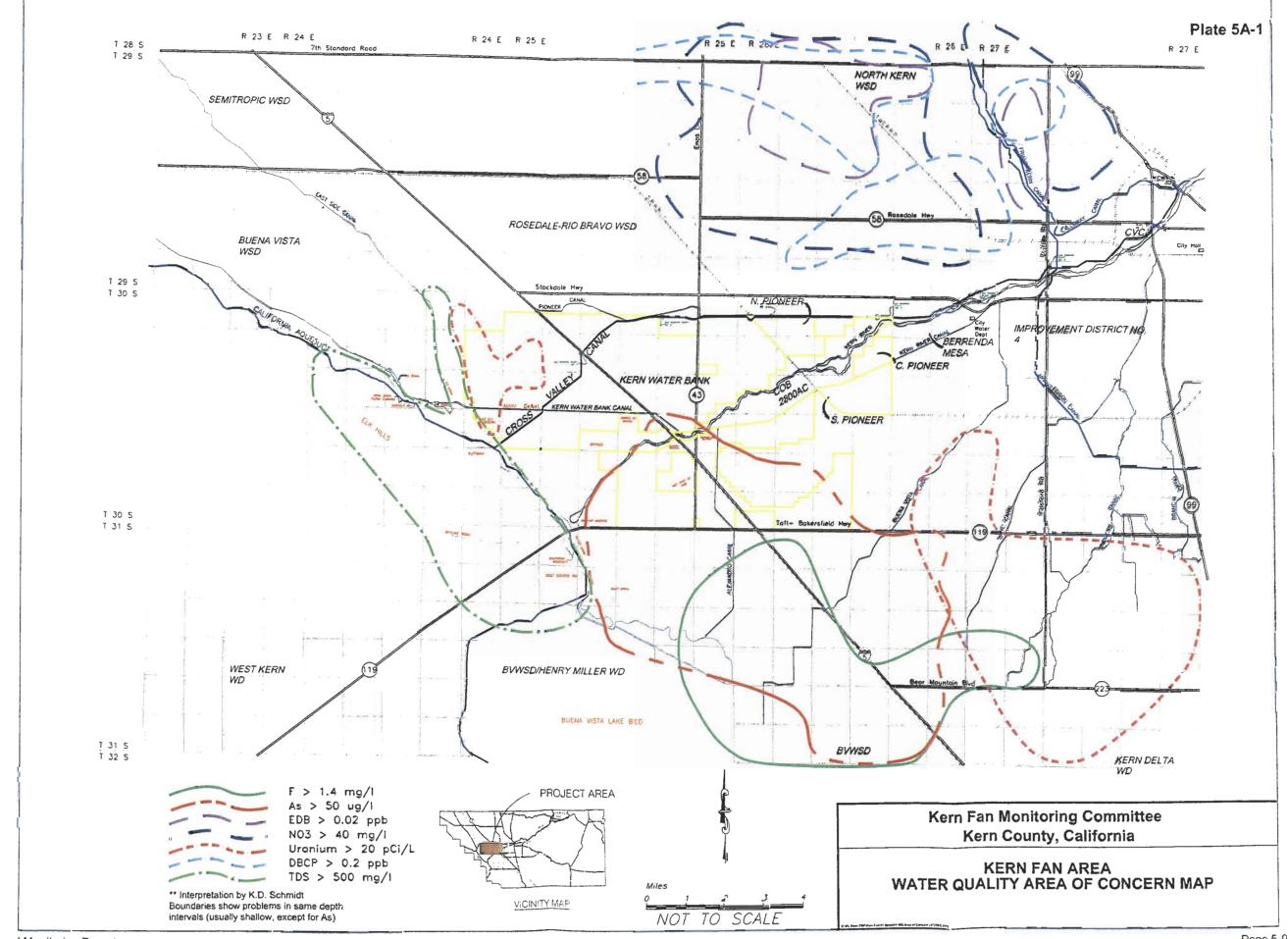
5A-1 Kern Fan Groundwater Quality Areas of Concern Map

CHAPTER 5 LIST OF TABLES

5C-1	Pump-in Program Blending Calculations
5C-2	Constituents of Concern Sampling California Aqueduct and Kern Water Bank Canal
5D-1	Salt Load Imported to Basin with Recharge Water Supplies - Summary
5D-2	1995 Analysis of Salt Load Imported to Basin with Recharge Water Supplies
5D-3	1996 Analysis of Salt Load Imported to Basin with Recharge Water Supplies
5D-4	1997 Analysis of Salt Load Imported to Basin with Recharge Water Supplies
5D-5	1998 Analysis of Salt Load Imported to Basin with Recharge Water Supplies
5D-6	1999 Analysis of Salt Load Imported to Basin with Recharge Water Supplies
5D-7	2000 Analysis of Salt Load Imported to Basin with Recharge Water Supplies
5D-8	2001 Analysis of Salt Load Imported to Basin with Recharge Water Supplies
5D-9	State Water Project California Aqueduct Near Highway 119 (Check 29) Water Quality - Total
	Dissolved Solids (TDS) (1)
5D-10	Recovery Summary and Salt Content – 2800 Acres
5D-11	Recovery Summary and Salt Content – Berrenda Mesa Project
5D-12	Recovery Summary and Salt Content – Kern Water Bank
5D-13	Recovery Summary and Salt Content – Pioneer Property
	Recovery Summary and Salt Content – All Projects

CHAPTER 5 SECTION A

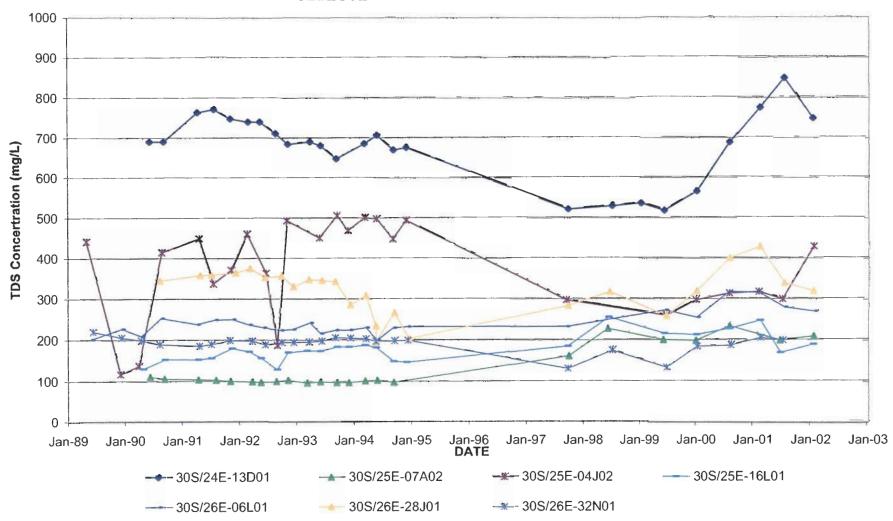
GROUNDWATER QUALITY AREAS OF CONCERN MAP



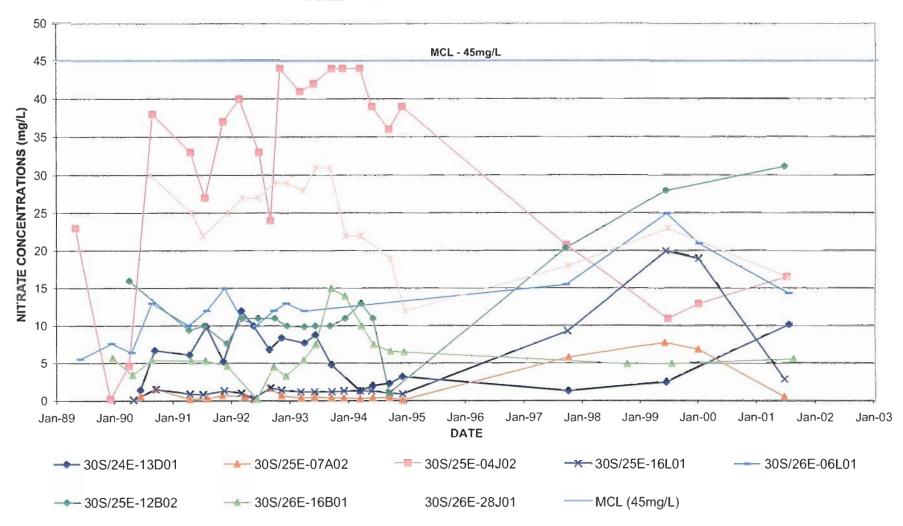
CHAPTER 5 SECTION B

WATER QUALITY HYDROGRAPHS

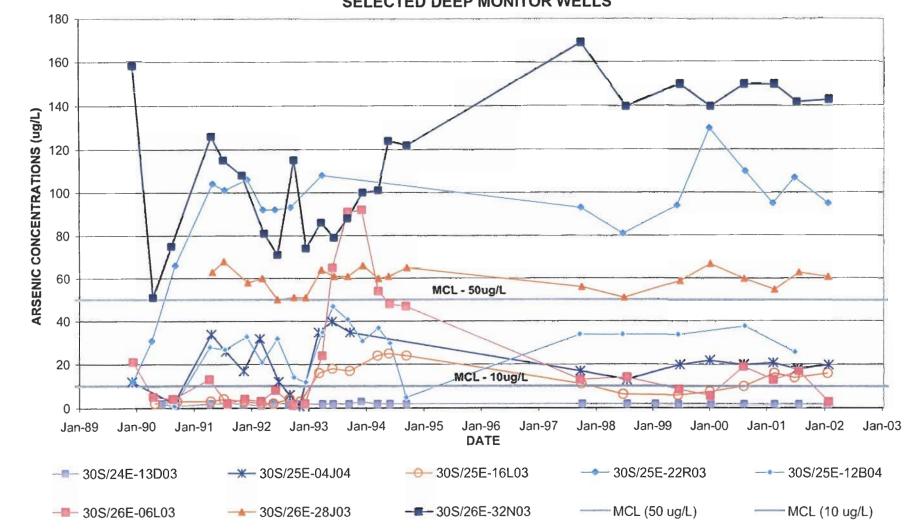
TOTAL DISSOLVED SOLIDS CONCENTRATIONS IN WATER FROM SELECTED SHALLOW MONITOR WELLS



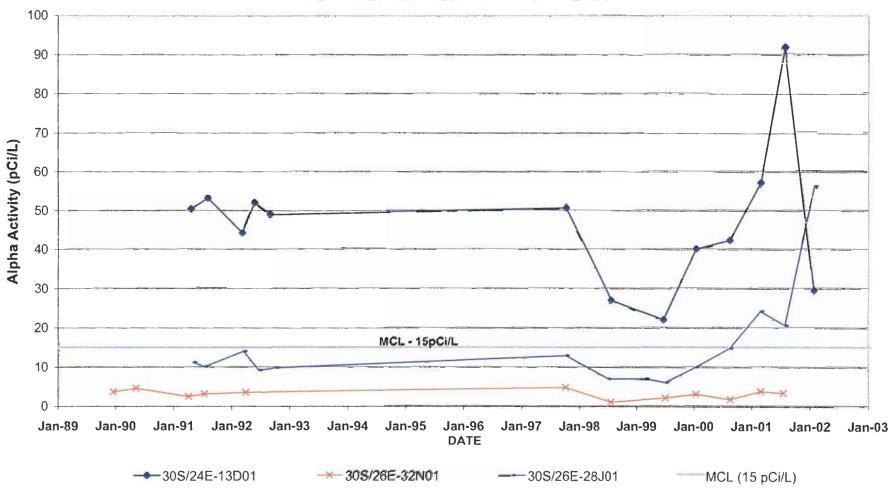
NITRATE (NO3) CONCENTRATIONS IN WATER FROM SELECTED SHALLOW MONITOR WELLS











CHAPTER 5 SECTION C

PUMP-IN PROGRAM CRITERIA AND BLENDING CALCULATIONS

- Pump-in Program Blending Calculations
- Well Manifold Constituent Summary
- Aqueduct Pump-in Program Summary of Changes
- Aqueduct Pump-in Program Changes by Location
- Calculated Monthly Changes in Aqueduct Blend for 2001 Relative to Background
- Well Contribution by Project and Change in TDS
- CVC Pump-in Program Summary of Changes

Pump-in Program Blending Calculations

Background Conditions

Values in blue are for user entry.

Values in black are calculated results or labels.

Choose a model background scenario here, and/or enter data below.

	Ambient Model				Allo	cation		
Year Type	Annual Average	Monthly Average	2001	20%	25%	30%	35%	40%
Critical	0	0	0	0	0	0	0	0
Dry	0	0	45%	50%	55%	60%	65%	NEW WEST
2001	0	0	0	0	0	0	0	

Year Type: 2001		Allocation:	2001							
· 通過的學 (1000年) (1000年)	D	1			Constitu	ent Conce	ntrations			
	Demand	As	Br	Cr	Cr+6	NO3	TDS	DOC	SO4	U
Units	cfs	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	pCi/l
MCL		10	None	50	None	45	500	None	250	20
Aqueduct		PER INCHES	1997	NEW YEAR						
January	2348	2.0	210	1.0	1.0	3.5	340	4.0	43	2.0
February	1170	2.0	210	1.0	1.0	3.5	306	4.0	43	2.0
March	2029	2.0	150	1.0	1.0	5.5	255	5.1	51	2.0
April	1517	2.0	170	1.0	0.2	4.3	288	4.6	60	2.0
May	2238	2.0	210	1.0	0.2	3.2	268	3.4	47	2.0
June	1874	2.0	240	1.0	0.2	2.7	275	2.9	42	2.0
July	2039	3.0	170	1.0	0.2	1.9	263	3.0	37	2.0
August	1889	3.0	250	1.0	0.2	1.4	257	2.5	29	2.0
September	2192	3.0	360	1.0	0.2	1.5	320	2.4	34	2.0
October	2205	3.0	360	1.0	0.2	2.0	335	2.4	38	2.0
November	2113	3.0	390	1.0	0.2	2.4	378	2.7	46	2.0
December	1504	2.0	310	1.0	0.2	4.0	307	2.6	39	2.0
Kern River (into RC)	249	3.0	20.0	10.0	1.0	2.0	135.0	2.2	11.0	1.4
Kem River (into CVC)*	0	-		-	-	-	-	-	-	-
Friant (into CVC)*	0	-	-	-	-			-		

^{*} These Kern River & Friant flows modeled into CVC Pool 5. Enter Kern River and Friant data on "Well Data by Pool" sheet.

Manifold Blends

Manifold	Inflow	As	Br	Cr	Cr+6	NO3	TDS	DOC	SO4	U
Manifold	cfs	ug/l	ug/t	ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	pCi/l
Semitropic	0	-	-	_		-		_	-	_
CVC Pool 1	64	3.3	186	4.0	1.60	13.7	247	1.3	47	12.5
CVC Pool 2	31	4.1	211	4.7	1.55	11.0	270	1.7	44	9.4
CVC Pool 3	8	2.0	200	10.0	1.60	13.5	228	1.4	28	7.1
CVC Pool 4	124	2.4	152	3.7	1.51	8.1	239	1.3	29	11.1
CVC Pool 5 & 6	48	2.0	120	1.0	1.47	4.3	153	1.3	16	3.8
CVC Subtotals East	109	2.2	138	2.5	1.50	6.5	201	1.3	23	7.9
West	165	3.0	179	4.3	1.56	11.1	247	1.4	39	11.1
River Canal	373	3.0	81	7.5	1.20	3.3	155	1.9	16	2.9
KWB Canal	113	6.4	131	4.5	1.60	7.0	206	1.1	40	7.3
Aquatic Lakes	0	-	-	-	-	-		_		_
WRM6	0		-	-	-	-	-		-	
WRM7	2	2.0	200	10.0	1.60	6.2	1,090	1.4	660	2.0
WRM8	0		-	-		-	-	-	-	-
WRM9	1	5.0.	100	1.0	0.50	0.4	1,700	0.5	1,030	5.1
WRM9A-10	1	2.0	200	10.0	1.60	13.3	970	1.4	475	2.0
WRMWSD Subtotal	4	3.0	167	7.0	1.23	5.5	1,272	1.1	751	3.0
Arvin-Edison	0		-	-	-	-		-	-	-
Well Blend in Aqueduct		4.0	139	5.2	1.47	7.8	223	1.4	41	7.8

Note: Enter Aquatic Lakes, Semitropic and Arvin data on "Well Data by Pool" sheet.

Month Modeled: June

Pump-in Program Blending Calculations

Pump-in Blend for Month:

6

Recalculate Blends and Savings

TO SECURITION OF THE SEC	Total				Constitu	ent Conce	ntrations			
	Flow	As	Br	Cr	Cr+6	NO3	TDS	DOC	SO4	U
Units	cfs	ug/l	ug/l	ug/l	ug/f	mg/l	mg/l	mg/l	mg/i	pCi/I
MCL		10	None	50	None	45	500	None	250	20
Alejandro Blend	274	4.0	116.6	10.1	1.6	4.4	211.0	2.5	21.8	3.9
CVC Blend	109	2.2	138	2.5	1.50	6.5	201	1.3	23	7.9
Change	109	NA	NA	NA	NA	NA	NA	NA	NA	NA
% of the MCL	NA	22%	NA	5%	NA	14%	40%	NA	9%	40%
Aqueduct Blends	2000年100日	AND THE RESERVE		straine in				Market Broke		
Background	2462	2.0	240	1.0	0.20	2.7	275	2.9	42	2.0
After Semitropic	2324	2.0	240	1.0	0.20	2.7	275	2.9	42	2.0
After CVC	2212	2.1	235	1.2	0.30	3.3	273	2.7	42	2.7
After KWB	2423	2.3	224	1.7	0.40	3.5	265	2.6	41	2.9
After Aquatic Lakes	2325	2.3	224	1.7	0.40	3.5	265	2.6	41	2.9
After WRMWSD 6	2175	2.3	224	1.7	0.40	3.5	265	2.6	41	2.9
After WRMWSD 7	2108	2.3	224	1.7	0.40	3.5	266	2.6	41	2.9
After WRMWSD 8	2056	2.3	224	1.7	0.40	3.5	266	2.6	41	2.9
After WRMWSD 9	2036	2.3	224	1.7	0.40	3.5	267	2.6	42	2.9
After Arvin-Edison	2036	2.3	224	1.7	0.40	3.5	267	2.6	42	2.9
After WRMWSD 9A-10	1919	2.3	224	1.7	0.40	3.5	267	2.6	42	2.9
Total Change	-543	0.3	-16	0.7	0.2	0.8	-7.9	-0.2	0.1	0.9
% of the MCL	NA	23%	NA	3%	NA	8%	53%	NA	17%	15%

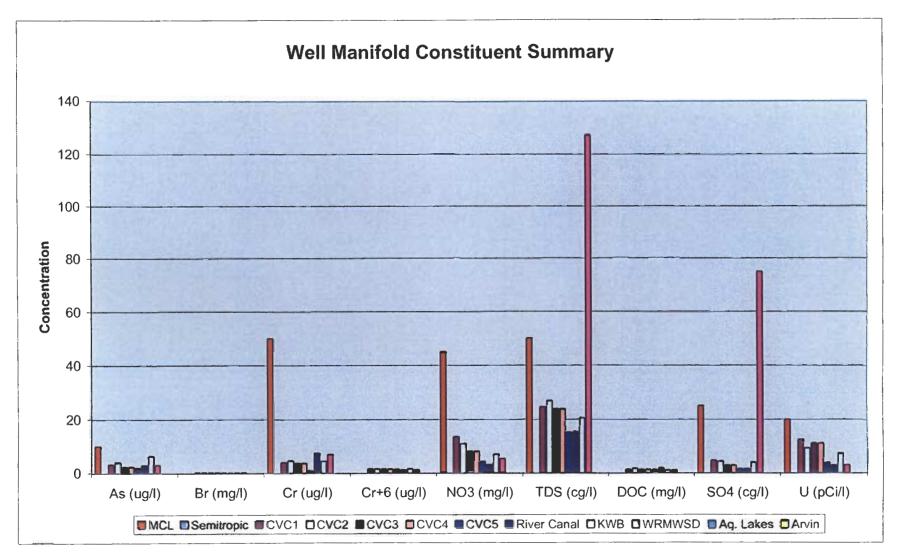
Downstream Aqueduct Blend by Month

Month	Total	As	Br	Cr	Cr+6	NO3	TDS	DOC	SO4	Ü
Mondi	Flow	ug/l	ug/l	ug/l	ug/l	mg/l	mg/l	mg/l	mg/l	pCi/I
January	2350	2.0	210	1.0	1.00	3.5	340	4.0	43	2.0
February	1170	2.0	210	1.0	1.00	3.5	306	4.0	43	2.0
March	2032	2.4	155	1.3	1.02	5.4	256	4.9	50	2.3
April	1531	2.6	172	1.9	0.63	5.1	274	3.7	54	3.7
May	2274	2.3	202	1.5	0.43	3.9	260	3.0	45	3.0
June	1919	2.3	224	1.7	0.40	3.5	267	2.6	42	2.9
July	2088	3.2	167	1.6	0.38	2.8	257	2.8	37	2.8
August	1927	3.2	238	1.5	0.41	2.5	253	2.3	31	3.0
September	2225	3.1	340	1.3	0.37	2.3	309	2.3	35	2.8
October	2229	3.0	356	1.1	0.23	2.2	333	2.4	38	2.2
November	2114	3.7	359	2.5	1.10	3.0	377	2.6	51	2.3
December	1504	3.3	278	3.1	1.51	4.6	319	2.4	48	2.6

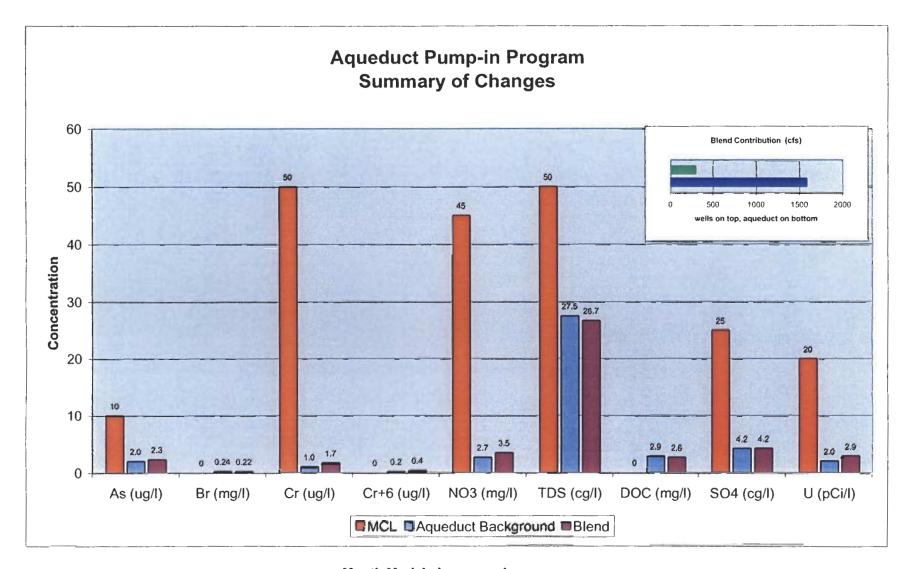
Note: Run "Recalculate Blends and Savings" macro to recalculate all time-dependant values.

Type Year:

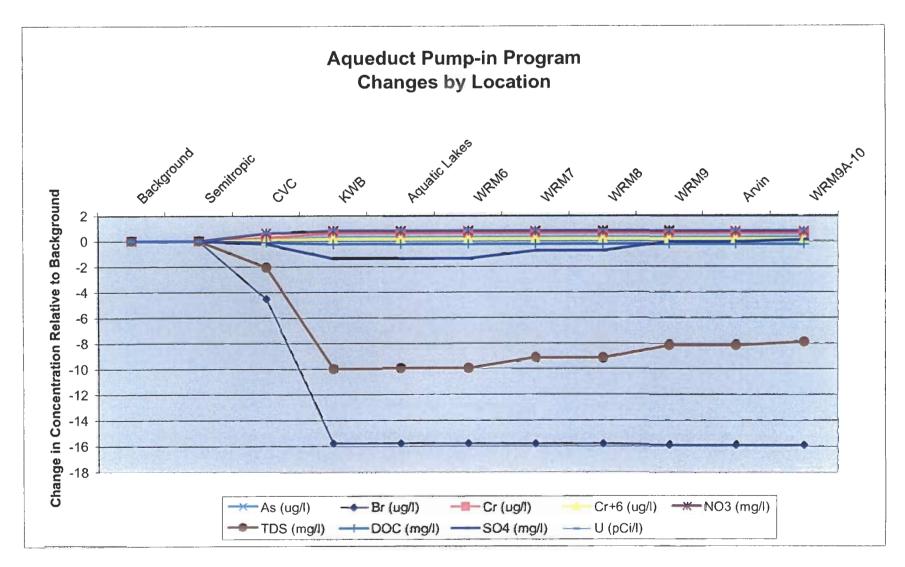
2001



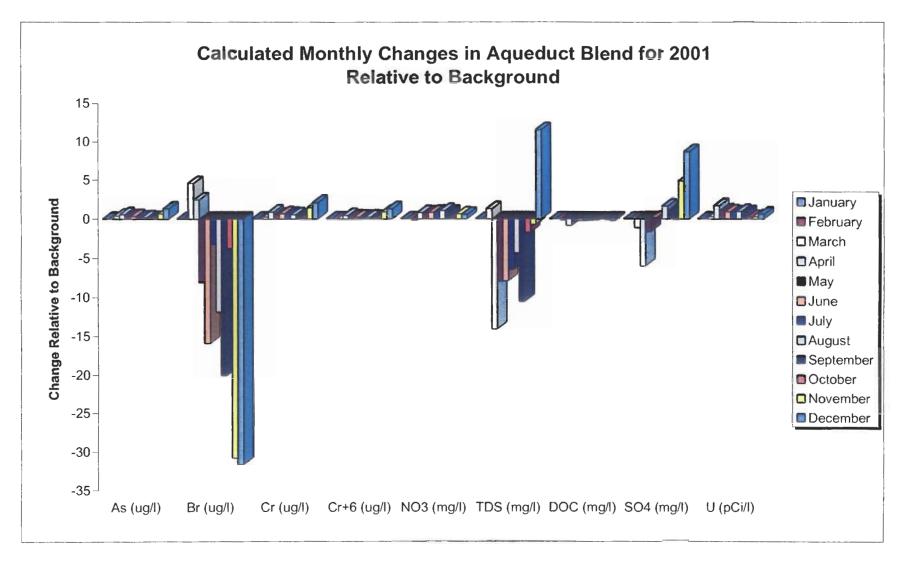
Month Modeled:



Month Modeled: Type Year:

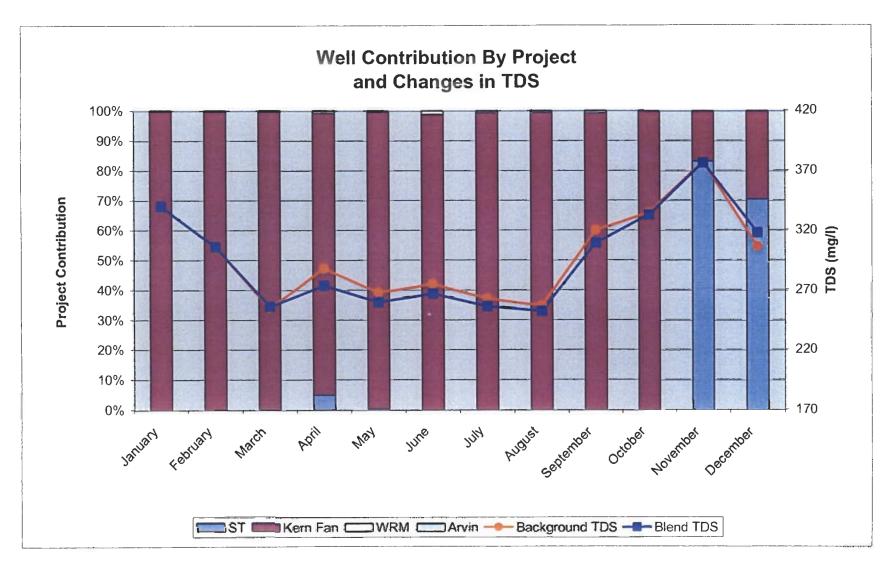


Month Modeled: Type Year:



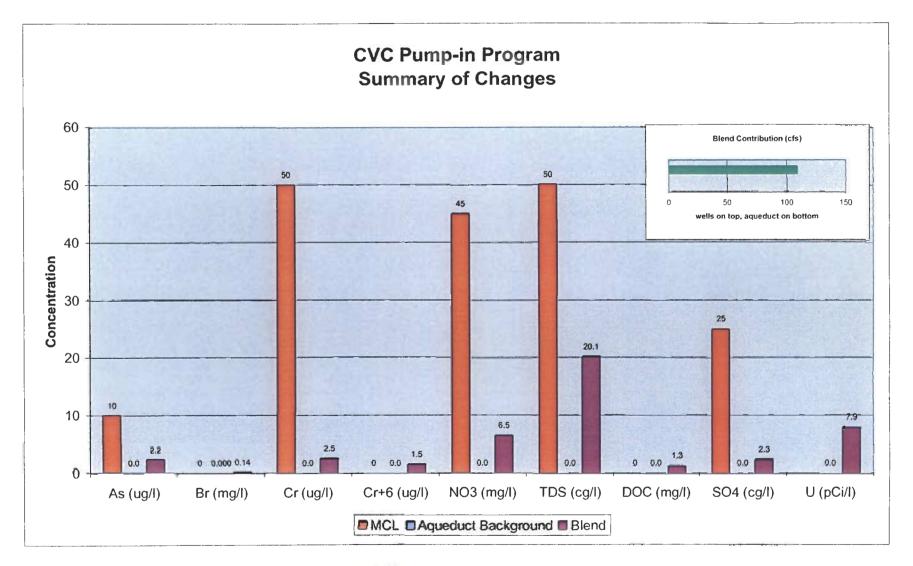
Type Year:

2001



Type Year: 2001

Note: Wells are off in January & February



Month Modeled: Type Year:

CONSTITUENTS OF CONCERN SAMPLING CALIFORNIA AQUEDUCT AND KERN WATER BANK CANAL

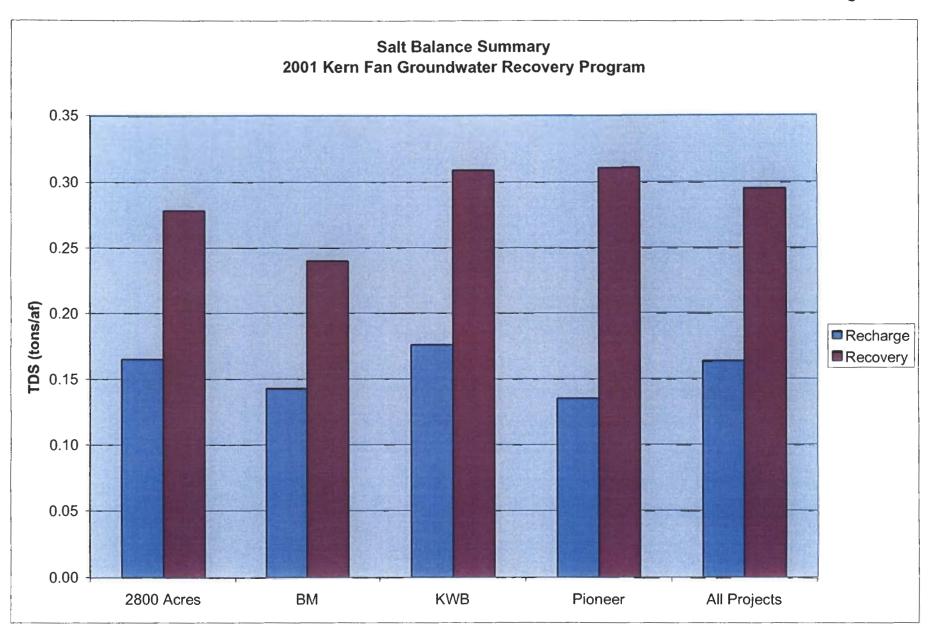
Constituent 🚞	Date Sampled	Alpha pCi/L	Alpha Count Error pCi/L	Arsenic ug/L	Bromide mg/L	Chromium ug/L	Cr+6 ug/L	DOC mg/L	Nitrate mg/L	Нq	Sulfate mg/L	TDS mg/L	TOC ug/L	Turbidity NTU	Uranium pCi/L	Uranium Count Error pCi/L
Location																
Aqueduct upstream of KWB Canal	3/9/2001	1.56	1.13	2	0.16	2	0.1	NOT SAMPLED	5	8.23	52	320	4.91	4.9	0	1.3
KWB Canal @Aqueduct	3/9/2001	7.72	1.55	2	<0.1	3	1.6	NOT SAMPLED	8.3	8.33	34	210	0.74	7.3	6.3	2
KWB Canal @Aqueduct	6/19/2001	7.56	1.54	5	0.2	2	1.6	1.4	7.1	8.6	39	210	NOT SAMPLED	8.5	3.8	0.852

CHAPTER 5 SECTION D

KERN FAN AREA SALT BALANCE SUMMARY

FIGURE 5D-1 CONSTRUCTED USING TABLES 5D-10 THROUGH 5D-14

Figure 5D-1



CHAPTER 5 SECTION D

KERN FAN MONITORING COMMITTEE IMPORTED SALT LOAD

State Water Project
California Aqueduct Near Highway 119 (Check 29)
Water Quality - Total Dissolved Solids (TDS) (1)

		TDS			TDS			TDS			TDS
Year	Month	(mg/l)	Year	Month	(mg/l)	Year	Month	(mg/l)	Year	Month	(mg/l)
1990	Jan	382	1993	Jan	499	1996	Jan	284	1999	Jan	315
	Feb	369		Feb	472	1	Feb	251		Feb	216
İ	Маг	306		Маг	470	1	Mar	236		Mar	158
	Арг	335		Apr	441		Apr	211		Apr	231
	May	355	1	May	326	1	May	265		May	232
	Jun	343	1	Jun	346		Jun	260	1	Jun	228
	Jul	338	ł	Jul	334		Jul	214	1	Jul	199
1	Aug	319	1	Aug	339	ļ	Aug	197		Aug	153
1	Sep	280		Sep	174		Sep	146		Sep	164
ł	Oct	310	1	Oct	206		Oct	152		Oct	258
	Nov	357		Nov	214		Nov	195		Nov	242
<u> </u> 	Dec	438		Dec	311		Dec	266		Dec	291
1001		460	1004		207	1007	I (2)		2000		205
1991	Jan	469	1994	Jan	297	1997	Jan (2)	66	2000	Jan	295
	Feb	448		Feb	328		Feb (2)	88		Feb	250
1	Mar	433		Mar	363		Mar	147		Mar	187
	Apr	382		Apr	357		Apr	225		Apr	206
	May	No Rec.		May	340		May	227		May	239
	Jun	361		Jun	339		Jun	219		Jun	239
	Jul	363		Jul	333		Jul	210		Jul	189
	Aug	359		Aug	310		Aug	224		Aug	213
	Sep	326 329		Sep	395		Sep	154		Sep	164
	Oct			Oct	479		Oct	180		Oct	248
	Nov	329 356		Nov	480		Nov	331		Nov	262
	Dec	330		Dec	427		Dec	293		Dec	301
1992	Jan	439	1995	Jan	417	1998	Jan	297	2001	Jan	374
	Feb	485	1,,,,	Feb	219	****	Feb	227	2001	Feb	337
	Mar	563		Mar	263		Mar	218		Mar	280
	Apr	358		Apr	274		Apr (2)	108		Apr	275
	May	366		May	144		May (2)	78		May	239
	Jun	353		Jun	152		Jun (2)	78		Jun	227
	Jul	377		Jul	158		Jul (2)	124		Jul	291
	Aug	410		Aug	178		Aug	186		Aug	245
	Sep	361		Sep	165		Sep	206		Sep	323
	Oct	337		Oct	141		Oct	142		Oct	365
	Nov	464		Nov	160		Nov	130		Nov	333
	Dec	456		Dec	270		Dec	207		Dec	310

Notes:

^{1.} Source of data: Table 32 of <u>State Water Project Operations Data</u> published monthly by State of California, Department of Water Resources, Division of Operations and Maintenance.

^{2.} Kern River Intertie opened to divert Kern River and Friant-Kern floodwaters into California Aqueduct.

		Gross Recharge	Net Recharge	Salt Load	Gross	Average TDS Net	•
Recharge Area	Year	(AF)	(AF)	(tons)	(mg/l)	(mg/l)	(tons/AF)
D	1005	24.497	22.417	5.072	127	126	0.18
Berrenda Mesa	1995	34,486	32,417	5,972	127	136 77	
	1996 1997	9,966 6,555	9,368 6,162	985 498	73 56	59	0.11 0.08
	1997	20,349	19,128	2,246	81	86	0.08
	1999	633	595	39	45	48	0.12
	2000	1,027	965	60	43	46	0.06
	2001	0	0	0			0.00
	Total	73,016	68,635	9,800	99	105	0.14
2800 Acre Facility	1995	109,215	102,662	21,143	142	152	0.21
	1996	39,483	37,114	5,667	106	112	0.15
	1997	5,740	5,396	1,363	175	186	0.25
	1998	56,397	53,013	6,757	88	94	0.13
	1999	10,263	9,647	1,763	126	134	0.18
	2000	30,918	29,063	1,870	45	47	0.06
	2001	2,539	2,387	966	280	298	0
	Total	254,555	239,282	39,529	114	122	0.17
Kern Water Bank	1995	222,260	208,924	33,211	110	117	0.16
Rem water Bank	1996	173,875	163,443	33,492	142	151	0.20
	1997	112,262	105,526	20,569	135	143	0.19
	1998	302,715	284,552	40,067	97	104	
	1999	36,753	34,548	9,483	190	202	0.27
	2000	27,579	25,924	5,905	158	168	0.23
	2001	10,030	9,428	3,817	280	298	0
	Total	885,474	832,346	146,544	122	130	0.18
Pioneer Property	1995	79,513	74,742	8,246	76	81	0.11
	1996	45,676	42,935	5,632	91	97	0.13
	1997	30,085	28,280	4,017	98	105	0.14
	1998	69,115	64,968	9,044	96	102	0.14
	1999	13,732	12,908	2,858	153	163	0.22
	2000	15,296	14,378	2,100	101	107	0.15
	2001	1,253	1,178	477	280	298	0
	Total	254,670	239,390	32,374	94	100	0.14
Kern River Channel	1995	3,258	3,063	240	54	58	0.08
	1996	18,325	17,226	1,520	61	65	0.09
	1997	6,471	6,083	739	84	89	0.12
	1998	872	820	67	57	60	0.08
	1999	2,043	1,920	119	43	46	0.06
	2000	4,073	3,829	238	43	46	0.06
	2001	2,214	2,081	219	73	77	0
	Total	37,256	35,021	3,142	62	66	0.09
Combined Areas	1995	448,732	421,808	68,812	113	120	0.16
	1996	287,325	270,086	47,296	121	129	0.18
	1997	161,113	151,446	27,186	124	132	0.18
	1998	449,448	422,481	58,181	95	101	0.14
	1999	63,424	59,619	14,262	165	176	0.24
	2000	78,893	74,159	10,173	95	101	0.14
	2001	16,036	15,074	5,479	251	267	0
	Total	1,504,971	1,414,673	231,389	113	120	0.16

Charles Property Charles Pro	Year - 1995		January		F	ebruary			March	Т		April			May			June			July		A	lugust		Se	ptember			October		N/	ovember		De	cember		Totals
Recharge Project Merk Source Alto Project Alto Project Merk Source Alto Project Merk Source Alto Project Alto Projec				Salt			Salt			Salt			Salt			Salt			Salt			Salt			Salt			Salt			Salt						tle2	
Mart Source AF Target	Recharge Project/	1					-		-			-			-			-			-																	
Berenda Micas SWP 3.08	, ,							. ~			_			-			_												_									_
SWP 3508 417 1,705 3,774 219 1,120 125 223 449 0 274 0 0 144 0 0 152 0 0 182 0 0 188 0 0 186 0 73 141 14 778 160 169 2,549 270 9.5 11,474 4,395	··· atti bourto	(14)	(1118/1)	(1012)	(111)	(1118/1)	(tota)	(/11)	(IIIg/I)	(tolis)	(111)	(116/1)	(OLD)	(111)	(mg/I)	(tons)	(/11)	(IIIg/I)	(tons)	(/11)	(118/1)	(tons)	(/11)	(IIIg/I) ((tolls)	(20)	(1116/1)	(tolls)	(711)	(iug-i)	(tons)	(AI)	(IIIg/I)	(tolls)	(A)	(mg/i)	(tolls)	(AF) (tolls)
SWP 3508 417 1,705 3,774 219 1,120 125 223 449 0 274 0 0 144 0 0 152 0 0 182 0 0 188 0 0 186 0 73 141 14 778 160 169 2,549 270 9.5 11,474 4,395	Berrenda Mesa			i															- 1			- 1						ĺ							i		- 1	
FK 0 43 0 734 43 43 11,90 43 0734 43 43 11,90 43 167 2,327 43 136 1787 43 104 2,214 43 129 1,984 43 116 2,341 43 137 3,616 43 221 0 43 16,62 45 186 43 21 0 6,43 18,917 1,106 48 18 18 48 68 68 19 84 18 18 18 48 68 61 319 84 18 18 18 48 68 61 319 84 18 18 18 18 48 68 61 319 84 18 18 18 18 18 18 18 18 18 18 18 18 18		3 008	417	1 705	3 774	219	1 123	1 255	263	449	0	274	ام	0	144	0	0	152	اه	0	158	ام	0	178	ام		165	ام	73	141	14	770	160	140	2.540	270	025	11 427 4 206
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Totals 1,008		ľ		0	7.54		73	1,130		0/	2,327	84	130			60				,						l '		211	1.626		104	_,	93	130	03	94	4	
SWP 7,432 417 4,212 14,181 219 4,221 6,303 263 2,253 0 274 0 0 0 144 0 0 0 152 0 0 158 0 0 178 0 2,988 165 670 6,452 141 1,236 4,971 160 1,081 5,960 270 2,187 48,287 15,800 158 0 0 178 0 2,988 165 670 6,452 141 1,236 4,971 160 1,081 5,960 270 2,187 48,287 15,800 1,081 5,960 1,081 5	1	·	0 1	1 705	4 500	04	1 144	2 405	04	514	2 227	04	126		04			04			04	1		04	1	•	04	211		64	- 1		04	222	2614	84	020	,
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SWP FK RS PROPERTY SWP OF ALT OF ALT ALL STATE AND ALL STATE ALL STATE AND ALL STATE A	2800 Acres									- 1						1						İ						1			- 1			ĺ			1	ļ
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Totals 7,432 4,212 1628 4,344 6,478 2,263 264 15 12,201 966 15,071 1,286 9,197 990 12,648 1,190 11,808 1,347 6,829 1,258 5,046 1,085 5,960 2,187 109,215 21,143 Kem Water Bank SWP		l *		0	2,100		123			- 1			13									63							311		22	75	43	4	0	43	0	
Kem Water Bank SWP O 417 O 0 219 O 0 263 O 0 274 O 0 144 O 988 152 204 O 158 O 708 178 171 2,421 165 543 15,481 141 2,967 26,844 160 5,837 23,887 270 8,765 70,329 18,487 FK O 43 O 0 84 O 0 84 O 0 84 O 0 84 B2 1,616 84 167 12,254 84 1,399 32,945 84 3,761 35,816 84 4,089 19,386 84 2,213 2,320 84 2,655 0 84 O 104,896 11,975 Totals O 417 O 0 219 O 0 263 O 0 274 O 0 144 O 0 152 O 0 158 O 0 178 O 0 178 O 0 178 O 0 184 O 0 84 O 0 84 O 1 0 84 O 0 84 O 0 84 O 0 84 O 0 84 O 0 84 O 0 84 O 0 84 O 0 84 O 1 0 84 O 0 8		l ,	84	4 0 0	16.001	84	4 2 4 4		٠.	٧ſ	•	84	. 0	,	84			84			84						84		0	84	. 220	0	84	0	0	84	0	
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SWP 0 417 0 0 219 0 0 263 0 0 274 0 0 144 0 988 152 204 0 158 0 708 178 171 2,421 165 543 15,481 141 2,967 26,844 160 5,837 23,887 270 8,765 70,329 18,487 FK 0 43 0 0 43 0 43 43 3 0 43 3 0 43 0 8,659 43 506 10,933 43 639 577 43 34 3,557 43 208 9,527 43 557 10,351 43 605 2,668 43 166 720 43 42 47,035 2,749 FM R	W W D 1			- 1			.						- 1						- 1			ļ			ļ			- 1			. [i			- 1	J
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Totals 0 0 0 0 43 3 714 82 10,120 673 24,175 2,242 33,522 3,795 40,081 4,468 31,334 3,313 28,152 3,836 29,512 5,993 24,607 8,807 222,260 33,211 Pioneer Property SWP 0 417 0 0 219 0 0 0 263 0 0 0 274 0 0 144 0 0 152 0 0 158 0 0 178 0 20 165 4 5,208 141 998 3,342 160 727 1,607 270 590 10,177 2,319 FK 0 43 0 0 84 0 0 84 0 1,067 84 122 4,586 84 524 6,514 84 744 5,785 84 660 8,782 84 1,003 4,807 84 549 2,027 84 231 89 84 10 0 84 0 33,657 3,842 Totals 0 0 0 10 0 2,253 132 7,618 505 11,028 900 11,480 1,034 9,454 875 11,562 1,165 8,879 790 7,489 1,244 6,595 922 3,155 680 79,513 8,246 Kem River Channel SWP 0 417 0 0 219 0 0 263 0 0 274 0 0 144 0 0 0 152 0 0 158 0 0 178 0 0 165 0 0 141 0 0 160 0 0 270 0 0 0 FK 0 43 0 0 84		0		0	0		ol	43		3			0									- 1										2,668	43	156	720		42	
Pioneer Property SWP 0 417 0 0 219 0 0 263 0 0 274 0 0 144 0 0 152 0 0 158 0 0 178 0 20 165 4 5,208 141 998 3,342 160 727 1,607 270 590 10,177 2,319 FK 0 43 0 0 43 0 0 2,253 43 132 6,551 43 383 6,442 43 376 4,966 43 290 3,669 43 214 2,780 43 162 4,052 43 237 254 43 15 3,164 43 185 1,548 43 90 35,679 2,085 KR 0 84 0 0 84 0 1,067 84 122 4,586 84 524 6,514 84 744 5,785 84 660 8,782 84 1,003 4,807 84 549 2,027 84 231 89 84 10 0 84 0 33,657 3,842 Totals 0 0 0 0 0 0 2,253 132 7,618 505 11,028 900 11,480 1,034 9,454 875 11,562 1,165 8,879 790 7,489 1,244 6,595 922 3,155 680 79,513 8,246 Kem River Channel SWP 0 417 0 0 219 0 0 263 0 0 274 0 0 144 0 0 152 0 0 158 0 0 178 0 0 165 0 0 141 0 0 160 0 0 270 0 0 0 FK 0 43 0 0 43 0 0 43 0 226 43 13 0 43 0 589 43 34 889 43 52 0 43 0 0 34 0 0 84 0 0 84 0 0 84 0 0 84 0 0 88 84 10 80 88 84 10 80 88 84 10 80 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 88 84 10 80 88 84 10 80 88 84 10 80 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 88 80 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 84 0 0 84	1	0	84	ol	0	84	0	0	84	0		84	- 1	,	84										, ,	,						•	84	0	0	٠.		
SWP 0 417 0 0 219 0 0 263 0 0 274 0 0 144 0 0 152 0 0 158 0 0 178 0 20 165 4 5,08 141 998 3,342 160 727 1,607 270 590 10,177 2,319 FK 0 43 0 0 43 0 2,253 43 132 6,551 43 383 6,442 43 376 4,966 43 290 3,669 43 214 2,780 43 162 4,052 43 237 254 43 15 3,164 43 185 1,548 43 90 35,679 2,085 KR 0 84 0 0 84 0 1,067 84 122 4,586 84 524 6,514 84 744 5,785 84 660 8,782 84 1,003 4,807 84 549 2,027 84 231 89 84 10 0 84 0 33,657 3,842 Totals 0 0 0 178 0 0 219 0 0 263 0 0 274 0 0 144 0 0 152 0 0 158 0 0 178 0 0 165 0 0 141 0 0 160 0 0 270 0 0 0 FK 0 43 0 0 43 0 226 43 13 0 43 0 589 43 34 889 43 52 0 43 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 88 0 80 80 80 80 80 80 80 80 80 80	Totals	0		0	0		0	43		3	714		82	_10,120		673	24,175		2,242	33,522		3,795	40,081		4,468	31,334		3,313	28,152		3,836	29,512		5,993	24,607		8,807	222,260 33,211
SWP 0 417 0 0 219 0 0 263 0 0 274 0 0 144 0 0 152 0 0 158 0 0 178 0 20 165 4 5,08 141 998 3,342 160 727 1,607 270 590 10,177 2,319 FK 0 43 0 0 43 0 2,253 43 132 6,551 43 383 6,442 43 376 4,966 43 290 3,669 43 214 2,780 43 162 4,052 43 237 254 43 15 3,164 43 185 1,548 43 90 35,679 2,085 KR 0 84 0 0 84 0 1,067 84 122 4,586 84 524 6,514 84 744 5,785 84 660 8,782 84 1,003 4,807 84 549 2,027 84 231 89 84 10 0 84 0 33,657 3,842 Totals 0 0 0 178 0 0 219 0 0 263 0 0 274 0 0 144 0 0 152 0 0 158 0 0 178 0 0 165 0 0 141 0 0 160 0 0 270 0 0 0 FK 0 43 0 0 43 0 226 43 13 0 43 0 589 43 34 889 43 52 0 43 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 88 84 10 80 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 88 0 80 80 80 80 80 80 80 80 80 80				- 1															1						-			- !			- 1			ı				
FK 0 43 0 0 43 0 0 2,253 43 132 6,551 43 383 6,442 43 376 4,966 43 290 3,669 43 214 2,780 43 162 4,052 43 237 254 43 15 3,164 43 185 1,548 43 90 35,679 2,085 KR 0 84 0 0 84 0 0 84 0 1,067 84 122 4,586 84 524 6,514 84 744 5,785 84 660 8,782 84 1,003 4,807 84 549 2,027 84 231 89 84 10 0 84 0 33,657 3,842 Totals 0 0 0 0 2,253 132 7,618 505 11,028 900 11,480 1,034 9,454 875 11,562 1,165 8,879 790 7,489 1,244 6,595 922 3,155 680 79,513 8,246 Mem River Channel SWP 0 417 0 0 219 0 0 263 0 0 274 0 0 144 0 0 152 0 0 158 0 0 178 0 0 165 0 0 141 0 0 160 0 0 270 0 0 0 FK 0 43 0 0 43 0 226 43 13 0 43 0 589 43 34 889 43 52 0 43 0 0 43 0 324 43 19 0 43 0 121 43 7 218 43 13 2,367 138 KR 0 84 0 0							İ						l									1									- 1							İ
KR 0 84 0 0 84 0 0 84 0 1,067 84 122 4,586 84 524 6,514 84 744 5,785 84 660 8,782 84 1,003 4,807 84 549 2,027 84 231 89 84 10 0 84 0 33,657 3,842 70tals 0 0 0 2,253 132 7,618 505 11,028 900 11,480 1,034 9,454 875 11,562 1,165 8,879 790 7,489 1,244 6,595 922 3,155 680 79,513 8,246 84 1,003 4,807 84 549 2,027 84 231 89 84 10 0 84 0 33,657 3,842 84 1,003 4,807 84 549 2,027 84 231 89 84 10 0 84 0 33,657 3,842 84 1,003 4,807 84 549 2,027 84 231 89 84 10 0 84 0 33,657 3,842 84 1,003 4,807 84 549 2,027 84 231 89 84 10 0 84 0 33,657 3,842 84 1,003 4,807 84 549 2,027 84 231 89 84 10 0 84 0 0	1 1	0		0	0		0	•	263	0	•		0	0		0	0	152	0	0		0	0		0		165	4		141	998		160	727	1,607	270	590	
Totals 0 0 0 0 2,253 132 7,618 505 11,028 900 11,480 1,034 9,454 875 11,562 1,165 8,879 790 7,489 1,244 6,595 922 3,155 680 79,513 8,246 Kern River Channel SWP 0 417 0 0 219 0 0 263 0 0 274 0 0 144 0 0 152 0 0 158 0 0 178 0 0 165 0 0 141 0 0 160 0 0 270 0 0 0 FK 0 43 0 0 43 0 226 43 13 0 43 0 589 43 34 889 43 52 0 43 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 88 84 10 803 84 92 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 891 102	1	0	43	0	0	43	0	2,253	43	132						376	4,966	43												43	- 1	3,164	43	185	1,548	43	90	35,679 2,085
Totals 0 0 0 0 2,253 132 7,618 505 11,028 900 11,480 1,034 9,454 875 11,562 1,165 8,879 790 7,489 1,244 6,595 922 3,155 680 79,513 8,246 Kern River Channel SWP 0 417 0 0 219 0 0 263 0 0 274 0 0 144 0 0 152 0 0 158 0 0 178 0 0 165 0 0 141 0 0 160 0 0 270 0 0 0 FK 0 43 0 0 43 0 226 43 13 0 43 0 589 43 34 889 43 52 0 43 0 0 43 0 324 43 19 0 43 0 121 43 7 218 43 13 2,367 138 KR 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 891 102	KR	0	84	ol	0	84	0	0	84	0	1,067	84			84	524	6,514	-			84			84 1	1,003		84	549		84	231	89	84	10	0	84	o	33,657 3,842
SWP 0 417 0 0 219 0 0 263 0 0 274 0 0 144 0 0 152 0 0 158 0 0 178 0 0 165 0 0 141 0 0 160 0 0 270 0 0 0 FK 0 43 0 0 43 0 226 43 13 0 0 43 0 589 43 34 889 43 52 0 0 43 0 0 43 0 324 43 19 0 0 43 0 121 43 7 218 43 13 2,367 138 13 13 13 10 13 10 13 10 13 10 13 10 10 10 10 10 10 10 10 10 10 10 10 10	Totals	0		0	0		0	2,253		132	7,618		505	11,028		900	11,480		1,034	9,454		875	11,562	1	1,165	8,879		790	7,489		1,244	6,595		922	3,155		680	
SWP 0 417 0 0 219 0 0 263 0 0 274 0 0 144 0 0 152 0 0 158 0 0 178 0 0 165 0 0 141 0 0 160 0 0 270 0 0 0 FK 0 43 0 0 43 0 226 43 13 0 0 43 0 589 43 34 889 43 52 0 0 43 0 0 43 0 324 43 19 0 0 43 0 121 43 7 218 43 13 2,367 138 13 2,36													T																									
FK 0 43 0 0 43 0 226 43 13 0 43 0 589 43 34 889 43 52 0 43 0 324 43 19 0 43 0 121 43 7 218 43 13 2,367 138 KR 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 891 102	Kern River Channel									-			-						- 1						- 1			- 1						1				
KR 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 88 84 10 803 84 92 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 891 102	SWP	0	417	0	0	219	o	0	263	ol	0	274	0	0	144	o	0	152	0	0	158	0	0	178	0	0	165	o	0	141	0	0	160	ol	0	270	ol	0 0
KR 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 88 84 10 803 84 92 0 84 0 0 84 0 0 84 0 0 84 0 0 84 0 891 102	FK	0	43	0	0	43	0	226	43	13	0	43	0	589	43	34	889	43	52	0	43	0	0	43	0	324	43	19	0	43	0	121	43	7	218	43	13	2,367 138
	KR	0	84	ol	0	84	ol	0	84	ol	0	84	ol			o	88	84	10	803	84	92	0	84	ol		84	o	0		o		84	ol	0		ol	· .
Totals 0 0 0 0 226 13 0 0 589 34 977 62 803 92 0 0 324 19 0 0 121 7 218 13 3,258 240	Totals	0		ol	0		ol	226		13	0		0	589		34		-	62	803		92	0		ol	324		19	0		o	121	-	7	218		13	

Water Quality Data Sources: SWP - Table 32 of <u>State Water Project Operations Data</u> published monthly by State of California.

FK - 43 mg/l represents average of 10 samples collected by KCWA between Nov 94 and Feb 02 (range 19 mg/l to 112 mg/l).

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2001 Kern Fan Area Operations and Monitoring Report Page 5-25

Year - 1996	Ja	nuary		F	ebruary		N	/larch			April			May			June			July			August		Se	ptember			ctober		No	vember		Do	cember		Totals
	Gross	W.Q. S	Salt	Gross	W. Q.	Salt	Gross	W. O. S	alt	Gross	W. O.	Salt	Gross		Salt	Gross		Salt			Salt	Gross		Salt				Gross		Salt		W. O.	Colt		W. Q. Sa		
Recharge Project/	Recharge	TDS L					Recharge									Recharge	TDS	Load		TDS		Recharge													-		oss Salt
Water Source	(AF)	(mg/l) (to	ons)	(AF)			(AF)	(mg/l) (to					(AF)									(AF)				(mg/l)					•		,				harge Load
	1	<u> </u>			(0/	(1012)	(-1-)	(8) (-		(8-)	(1012)	(14)	(IIIg/I)	(tons)	(211)	(Ing/I)	(tolls)	(711)	(1112/1)	(tolls)	(74)	(mg/i)	(tous)	(11)	(mg/I)	(tois)	(AF)	(mg/1)	(tons)	(Ar)	(mg/l) ((tons)	(AF)	(mg/l)_(to	1s) (A	F) (tons)
Berrenda Mesa	İ					i												1							i		-			- 1							
SWP	1111	284	43	184	251	63	0	236	٥	0	211	٥	0	265	0	0	260	٥	0	214	۸	0	197	0		146		0	1.50		0	106	ا	(25	2//	2.	
FK	107	43	6	135	43	8	636	43	37	3,156	43	184	2,098	43	123	•	43	17	0	13	, o	0	43	0	0	43	, i	270	132	201	0	195	01	625	266 2		920 332
KR	0	84	0	0	84	اه	0	84		0	84		2,070	84	123	0	84	1,/	0	84		0	84	0	0	84	, i	379	43 84	60	22.1	43	0	0	43	1 '	,804 398
Totals	218	0.	49	319	0.	71	636	04	37	3,156	04	184	2,098	07	123	293	04	12	0	04		0	04	0	0	84	0	524	84		321	84	37	1,397			,242 256
						-/1	- 030			3,130		104	2,070		123	293		-1/							- 0		0	903		82	321		37	2,022	3	85 9,	,966 985
2800 Acres						- 1						l															- 1			- 1							[
SWP	1,307	284	504	2,860	251	976	46	236	15	0	211		0	265		0	260	ام		214			107			146										j	
FK	1,507	43	304	644	43	20	3,289			11,428	43	668	664	43	391	0	260	0	0	214	9	0	197	0	0	146	0	0	152	0	0	195	0	4,586	266 1,6	,	,799 3,153
KR	0	84		601	84	69	1,301		149	98	84		664		39	0	43	200	0	43	- 0	0	43	0	0	43	0	603	43	35	1,109	43	65	0	43		737 1,037
Totals	1,307		504	4,105	04	1.082	4,636				84	11	0	84	0	2,614	84	298	2,541	84	290	105	84	12	0	84	0	0	84	0	2,311	84	264	3,376	84 3	85 12,9	947 1,478
10(4)5	1,307		304	4,103		1,082	4,030		355	11,526		679	664		39	2,614		298	2,541		290	105		12	0		0	603		35	3,420		329	7,962	2,0	43 39,4	483 5,667
Kern Water Bank						i			- 1			- 1			- 1			- 1			- 1			1			- 1						-				
SWP	11,587	284 4.4	472	10.740	261	2	(407	224 2		1 400	211	40.4																		- 1			- 1				1
FK	1 '	,	4/2	10,740		3,664	6,497	236 2,		1,409	211	404	2,103	265	757	255	260	90	2,015	214	586	11,456		3,067	10,695		2,122	9,079	152	1,876	5,601	195	1,484	16,055	266 5,8	04 87,4	492 26,411
KR	32	43	2	2,677	43	156	8,585		502	27,123		1,585	9,437	43	551	2,039	43	119	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0 49,8	893 2,916
	0	84	0	0	84	0	0	84	0	0	84	ol	12,259		1,400	10,369		1,184	2,282	84	261	0	84	0	0	84	0	0	84	0	1,398	84	160	10,182	84 1,1	52 36,4	490 4,166
Totals	11,619	4,4	474	13,417		3,820	15,082	2,	586	28,532	1	1,989	23,799		2,708	12,663		1,393	4,297		847	11,456		3,067	10,695		2,122	9,079		1,876	6,999	1	,644	26,237	6,9	66 173,8	875 33,492
D' D]					- 1						J			- 1			- 1						- 1									$\neg \neg$				
Pioneer Property															- 1						- 1			i			- 1						- 1				ſ
SWP	903		349	1,803	251	615	355		114	0	211	0	0	265	0	0	260	0	0	214	0	447	197	120	0	146	0	0	152	0	58	195	15	3,054	266 1,10	04 6,6	620 2,317
FK	466		27	2,703	43	158	4,334		253	7,070	43	413	3,904	43	228	838	43	49	0	43	0	0	43	0	0	43	0	605	43	35	601	43	35	0	43	1 .	521 1,199
KR	0	84	0	0	84	0	0	84	0	0	84	0	3,048	84	348	3,258	84	372	2,403	84	274	1,409	84	161	1,150	84	131	980	84	112	2,020	84	231	4,267	84 48		535 2,116
Totals	1,369	3	376	4,506		773	4,689		367	7,070		413	6,952		576	4,096		421	2,403		274	1,856		281	1,150		131	1,585		147	2,679		281	7,321	1,59		576 5,632
1						- 1			- 1																								$\overline{}$,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		10,0	
Kern River Channel									J						- 1			i			- 1			- 1						1			- 1			-	1
SWP	0	284	0	254	251	87	0	236	0	0	211	0	0	265	0	22	260	8	0	214	o	0	197	0	0	146	0	0	152	ol	0	195	0	64	266	23 3	340 118
FK	165	43	10	252	43	15	2,389	43	40	4,173	43	244	1,920	43	112	0	43	0	0	43	ol	0	43	0	0	43	0	1,546	43	90	1,239	43	72	0	43	0 11,6	
KR	0	84	0	0	84	ol	0	84	0	649	84	74	2,097	84	239	457	84	52	884	84	101	0	84	0	0	84	0	2,214	84	253	0	84	0	0	84	0 6,3	
Totals	165		10	506		101	2,389	1		4,822		318	4,017		352	479		60	884	-	101	0	٠.	ان	0	٠.	ŏ	3.760	0-1	343	1,239	04	72	64			
									-1	.,		3.0	-,		302			001	- 007		101							3,700		ונדנ	1,237		14	04	7	3 18,3	325 1,520

Water Quality Data Sources: SWP - Table 32 of State Water Project Operations Data published monthly by State of California.

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287,325 47,296 121

1007	1				ebruary			March			April		May			June			July			August			September			October			November			December			Totals		
Үеаг - 1997	Gross	January	Cale	Gross			Gross		Salt	Gross	W. Q.	Salt	Gross		Salt	Gross	W. O.	Salt	Gross	W. Q.	Salt	Gross	W. Q.	Salt	Gross			Gross	W. Q.	Salt	Gross		Salt	Gross	W. Q. S	Salt	Gross Salt		
Darkers Project/	Recharge			Recharge		Load	Decharge	TDS	Load				Recharge			Recharge		Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	TDS I	_oad F	Recharge Load		
Recharge Project/				(AF)			(AF)			(AF)	(mg/l)	(tons)	(AF)	(mg/l)						(mg/l)		(AF)	(mg/1)	(tons)	(AF)	(mg/l) ((tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l) (tons)	(AF)	(mg/l) (t	ons)	(AF) (tons)		
Water Source	(AF)	(mg/l)	(tons)	(Ar)	(шg/1)	(tolls)	(AF)	(mg/i)	(tolis)	(/11)	(mg/i)	(tons)	()	(116/1)	(tono)	()	(8/	(10.27)																					
Berrenda Mesa							1															ļ					1												
SWP	52	66	5	0	88	0	0	147	0	0	225	0	0	227	0	0	219	0	0	210	0	0	224	0	0	154	0	0	180	0	0	331	0	0	293	0	52 5		
FK	2,932		171	1,544	43	90	0	43	o	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	4,476 262		
KR	139		16	506			1,366	84	156	16	84	2	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	이	0	84	0	2,027 231		
Totals	3,123		192			148			156	16		2	0		0	0		0	0		0	0		0	0		0	00		0	0		0	0		0	6,555 498		
Totals	3,123		172	2,030			1,500																										ı						
2800 Acres	-																												100	^		221		2 407	202	994	2.5/2 1.000		
SWP	65	66	6	0	88	0	0	147	0	0	225	0	0	227	0	0	219	. 0	0	210	0	0	224	0	0	154	ol	0	180	0		331	0	2,497		994	2,562 1,000		
FK	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	ان	0	43	ol.	2 170 201		
, KR	875	84	100	0	84	0	0	84	0	623	84	71	1,680	84	192	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	U	2.407	84	204	3,178 363		
Totals	940		106	0		0	0		0	623		71	1,680		192	0		0	0		0	0		0	0		0	0		- 0	- 0		- 0	2,497		994	5,740 1,363		
																			!								ı												
Kern Water Bank																	210		١ .	210			224	0	2,769	154	580	2,563	180	627	11.165	331	5,023	14,166	293 5	5,641	40.049 13.931		
SWP	987	66	89	0	88		5,627	147	1,124	2,772	225	848	0	227	0	0	219	0	0	210	0	0		0	2,709	134	380	2,303	43	027	11,105	43	0,023	14,100	43	,	28,806 1,683		
FK	25,506	43	1,491	3,300	43	193	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	84	ol ol	0	84	0	١	84	ă	0	84		43,407 4,955		
KR	6,418	84	733	18,330	84	2,093	13,771		1,572	4,781	84	546	107	84	12	0	84	0	0	84	0	0	84	0	2.769	04		2,563	04	627	11,165		5,023	14,166		- 1	112,262 20,569		
Totals	32,911		2,312	21,630		2,285	19,398		2,696	7,553		1,393	107		12	0		0	0		- 0	0_		- 0	2,769		580	2,303		027	11,103		3,023	14,100		,041 1	112,202 20,309		
									ļ																		- 1												
Pioneer Property							ŀ												i .				22.4		_	164		0	180			331		3,501	293 1,	,394	3,632 1,406		
SWP	131	66	12	0	88	0	0	147	0	0	225	0	0	227	0	0	219	0	0	210	0	0	224	0	0	154	٥	0	43	0	١	43		3,301	43	,374	7,328 428		
FK	7,304	43	427	0	43	0	24	43	1	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	٥	0		0	0	84		0	43 84		19,125 2,183		
KR	2,501	84	286	7,185	84	820	5,965	84	681	1,534	84	175	1,450	84	166	490	84	56	0	84	0	0	84	0	0	84	0	0	84	U	0	84		2 501	٠.	- 1			
Totals	9,936		724			820	5,989		682	1,534_		175	1,450		166	490		56	0		0	0		0	0			- 0			- 0		- 0	3,501		,394	30,085 4,017		
																											- 1						1						
Kern River Channel	1								1										1										100			221			202		0 0		
SWP	0	66	0	0	88	0	0	147	0	0	225	0	0	227	0	0	219	0	0	210	0	0	224	0	0	154	0	0	180	0	0	331	\doldright{\lambda}{\doldright{\lambda}{\doldright{\lambda}{\doldright{\doldr	0	293	ار	0 0		
FK	0	43	0	0	43	0	0	43	o	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	(201	43	700	0	43	ان	0 0		
KR	0	84	0	0	84	0	0	84	ol	188	84	21	79	84	9	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	6,204	84	708	0	84	٥J	6,471 739		
Totals	0	- •	0	0		0	0		ol	188		21	79		9	0		0	0		0	0_		0	0		0	0		0]	6,204		708	0			6,471 739		

Water Quality Data Sources: SWP - Table 32 of State Water Project Operations Data published monthly by State of California.

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161,113 27,186 124

														1/				July			August		S	eptember		0		November			December			Totals				
Year - 1998		anuary			bruary			March			April	0.1		May	C-14	C	June W. Q.	Salt			Salt	Gross		Salt		W. Q.		Gross	W. Q.	Salt	Gross	W. Q.	Salt	Gross	W. Q.	Salt	Gross	Salt
1	1	W. Q. S		Gross	-	Salt	Gross	W. Q.	Salt	Gross	W. Q.	Salt	Gross	W. Q.	Sait							Recharge		Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	TDS I	oad R	echarge	Load
Recharge Project/	Recharge			Recharge						Recharge	TDS	Load	Recharge	IDS	Load	Kecnarge	(/1)	(tame)	Recharge (AF)				(mg/l)	1		(mg/l)			(mg/l)			(mg/l)		(AF)	(mg/l) (t	tons)	(AF)	(tons)
Water Source	(AF)	(mg/l) (to	ns)	(AF)	(mg/l)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l)	(tons)	(Ar)	(Ing/I)	(tolis)	(11)	(mg/t)	(tons)	(:2)	(23.6/1)	(1012)	<u> </u>	(`			`					
1	İ		- 1			- 1			- 1				1												ĺ					1			- 1					
Berrenda Mesa						- 1			- 1		100			70	0		70	0		124	0	0	186	0	607	206	170	60	142	12	0	130	o	319	207	90	986	271
SWP	0	_,	0	0	227	0	0	218	0	0	108	0	0	/8	0	0	10	0	424	43	25	ا م	43	0	0	43	0	0	43	ol	0	43	0	1,034	43	60	4,232	247
FK	0	43	0	412	43	24	1,505		88	857	43	50	0	43	0	1	43	104		84	142	1,809	84	207	1,380	84	158	2,070	84	236	1,889	84	216	18	84	2	15,131	1,727
KR	0	84	0	2,331	84	266	609	84	70	66	84	8	2,015	84			84	194	1,246	84			04	207	1,987		327	2,130	0.	248	,		216			152	20,349	2,246
Totals	0		0	2,743		290	2,114		157	923		58	2,015		230	1,698		194	1,670		167	1,809		207	1,967		321	2,130		-210	1,007			.,,,,,				
																						1					1			1			i					1
2800 Acres			- 1			ſ			1				ì					_		101			107	0		206	٥	986	142	190	0	130	0	30	207	8	2,647	857
SWP	1,631	297	658	0	227	0	0	218	0	0	108	0	0	78	0	} 0	78	0	0	124	Ü	"	186	0	1 0	43	0	700	43	1,0	0	43	٥	2,910	43	170	4,245	248
FK	0	43	0	1,335	43	78	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	4,471	84	510		84	358	678	84		49,505	
KR	2,539	84	290	12,949	84	1,478	10,965	84	1,252	8,495	84	970	0	84	0	0	84	0	6,271	84	716	0	84	0	0	84	0		04		3,137	04	358		04		56,397	
Totals	4.170		948	14.284		1,556	10,965		1,252	8,495		970	0		0	0		0	6,271		716	0		0	0		- 0	5,457		701	3,137		338	3,018		230	30,377	0,737
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,								-													İ			}					- }			i					- 1
Kern Water Bank	1		- 1			- 1	}		i				1			ļ			ł			ł				•••		15.000	1.42	2047	2 004	120	672	0 564	207 2	2,409	51,155 1	14 427
SWP	13,952	297 5,	632	3,118	227	962	0	218	ol	0	108	0	0	78	0	0	78	0	0	124	0	0	186	0	6,447	206	1,805	15,270	142	2,947	3,804	130	672	8,564				
FK	0	43	0	10,259	43	600	24,391		1,425	5,717	43	334	0	43	0	0	43	0	9,404	43	550	0	43	0	0	43	0	0	43	0	0	43	0	5,477			55,248	
KR	887		101	9,625		1,099	10,020		1,144	26,924		3,074	30,701	84	3,505	33,968	84	3,878	24,710	84	2,821	29,615	84	3,381	10,305		1,176	3,987	84	455		84	1,746		84		196,312 2	
Totals	14,839			23,002	0-7	2,660	34,411		2,569		٠.		30,701		3,505			3,878	34,114		3,371	29,615		3,381	16,752		2,981	19,257		3,402	19,102		2,419	14,313	2	2,760 3	302,715 4	10,067
Totals	14,039	<u>J,</u>	/33	23,002		2,000	34,411		2,507	32,041		3,100	30,701		3,500	00,000														- 1			}					
Pioneer Property			- 1			1			- 1				1			}						ł			ł					- }								
SWP	2,677	297 1,	081	0	227	٥	0	218	ام	0	108	0	0	78	0	l 0	78	0	0	124	0	0	186	0	1,644	206	460	1,989	142	384	43	130	8	1,293	207	364	7,646	
1	2,077	43	001	•	43	25	1 572	43	92	159	43	a	0	43		0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	2,682	43	157	4,835	283
FK	0		0	421		25	1,573				84	575	8,452	84		7,456		851	7,073	84	807	5,826	84	665	4,836	84	552	3,961	84	452	4,797	84	548	123	84		56,634	
KR	0	84	0	5,018	84	573	4,055	84	463	5,037	04	584		04	965	7,456		851	7,073		807	5,826		665	6,480		1,012	5,950		836	4,840		555			535	69,115	9,044
Totals	2,677	1,	081	5,439		597	5,628		555	5,196		384	0,432		903	7,430		031	7,075			,																- 1
	1					1			į							ĺ						ĺ								1			ł					
Kern River Channel											100			70		1 .	78	0	0	124	0	1 0	186	0	1 0	206	0	0	142	0	0	130	0	8	207	2	8	2
SWP	0	297	0	0	227	0	0	218	0	0	108	0	0	78		"		0	0	43	0	"	43	0	ا م	43	0	0	43	ol	0	43	0	600	43	35	600	35
FK	0	43	0	0	43	0	0	43	0	0	43	0	0	43		0	43	0			0	0	84	0	١ ،	84	0	0	84	0	0	84	ol	0	84	o	264	30
KR	264	84	30	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	"	04	0	0	. 04	0	n	٠.	اه	0		0	608		37	872	67
Totals	264		30	0		0	0		0	0		0	0		0	0		0	0		0	L0								~	<u>~</u>							

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FK - 43 mg/l represents average of 10 samples collected by KCWA between Nov 94 and Feb 02 (range 19 mg/l to 112 mg/l).

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449,448 58,181 95

Kern Fan Monitoring Committee Analysis of Salt Load Imported to Basin With Recharge Water Supplies

Year - 1999	1	anuary		Fé	ebruary		1	March			April			May			June			July			ugust			ptembe	r		October			ovember			cember		Total	
1			Salt	Gross		Salt	Gross		Salt	Gross		Salt	Gross	W. Q.	Salt	Gross	W. Q.	Salt	Gross	W. Q	. Salt	Gross	W. Q.	Salt	Gross						Gross				W. Q. Sa		Gross	
Recharge Project/	Recharge			Recharge		Load	Recharge			Recharge		Load				Recharge	TDS	Load	Recharg	e TDS	Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	TDS Loa	ad Rec	xharge	Load
Water Source	_	(mg/l)		_					1		(mg/l)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l) (tons)	(AF)	(mg/l) ((tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l)_(ton	ıs) (.	(AF)	(tons)
Water Source	1 (11)	(11.6/1)	(1012)	(12)	(8)	(1012)	(/	(8)	· · · · ·																									i				
Berrenda Mesa			- 1						- 1										1			1		1							ŀ		İ					ļ
SWP	0	315	ol	0	216	0	0	158	ol	0	231	0	0	232	0	0	228			0 19	9 0	0	153	0	0	164	0	0	258	0	0	242	0	0	291	0	0	0
FK	401	43	23	198	43	12	0	43	0	0	43	0	0	43	0	0	43) (0 4	3 0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	599	35
KR	34	84	4	0	84	0	0	84	o	0	84	0	0	84	0	0	84	. () (0 8	4 0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	34	4
Totals	435		27	198		12	0		0	0		0	0		0	0		()(0	0	0		0	0		0	0		0	0		0	0		0	633	39
																						ł		- 1														
2800 Acres							İ					J												- 1									- 1					
SWP	0	315	o	0	216	0	0	158	0	0	231	0	0	232	0	0	228			0 19	9 0	0	153	0	0	164	0	2,073	258	727	1,495	242	492	0	291		3,568	
FK	1,313	43	77	2,639	43	154	0	43	0	0	43	0	0	43	0	0	43	() (0 4		0	43	0	0	43	0	0	43	0	0	43	0	0	43			231
KR	650	84	74	2,093	84	239	0	84	0	0	84	0	0	84	0	0	84	. () (0 8	4 0	0	84	0	0	84	0	0	84	0	0	84	0	0	84			313
Totals	1,963		151	4,732		393	0		0	0		0	0		0	0)] (0	0	0		0	0		0	2,073		727	1,495		492	0		0 10	10,263	1,763
																			1											1								
Kern Water Bank			-				1		- 1															1														
SWP	1,525	315	653	1,149	216	337	1,022	158	219	2,274	231	714	347	232	109	0	228) (0 19	9 0	0	153	0	0	164	0	5,758	258	2,019	10,780	242	3,545	3,156	291 1,2		26,011	
FK	3,002	43	175	7,561	43	442	0	43	0	0	43	0	0	43	0	0	43	() (0 4		0	43	0	0	43	0	0	43	0	0	43	0	0	43			617
KR	0	84	0	179	84	20	0	84	0	0	84	0	0	84	0	0	84			0 8	4 0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	· 1	179	20
Totals	4,527		828	8,889		800	1,022		219	2,274		714	347		109	0				0	0	0		0	0		0	5,758		2,019	10,780		3,545	3,156	1,2	48 36	36,753	9,483
																						-																
Pioneer Property									i										1					_				•				0.40	70.	1.640	201 (
SWP	0	315	0	0	216	0	0	158	0	0	231	0	0	232	0	0	228	(0 19	9 0	0	153	0	0	164	0	2,890	258	1,013	2,206	242	726	1,640	291 6		6,736	
FK	2,119	43	124	3,773	43	220	0	43	0	0	43	0	0	43	0	0	43	(0 4	3 0	0	43	0	0	43	0	0	43	0	0	43	0	0	43		5,892	344
KR	0		o	1,104	84	126	0	84	0	0	84	0	0	84	0	0	84)} . (0 8	4 0	0	84	0	0	84	0	0	84	0	0	84	0	0	84		1,104	126
Totals	2,119		124	4,877		347	0		0	0		0	0		0	0) (0	0	0		0	0		0	2,890		1,013	2,206		726	1,640	6	49 13	13,732	2,858
																			1											- 1								- 1
Kern River Channel									i													1			_				2.55			0.40			201			
SWP	0	315	0	0	216	0	0	158	0	0	231	0	0	232	0	0	228			0 19	9 0	0	153	0	0	164	0	0	258	0	0	242	0	0	291	0	0	0
FK	160	43	9	0	43	0	0	43	0	0	43	0	0	43	0	0	43	() (0 4	3 0	0	43	0	0	43	0	0	43	0	35	43	2	1,848		08 2	2,043	119
KR	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84			0 8	4 0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	0
Totals	160		9	0		0	0		0	0		0	0		0	0				0	0	0		0	0		0	0		0	35		2]	1,848	10	08 2	2,043	119

Water Quality Data Sources: SWP - Table 32 of <u>State Water Project Operations Data</u> published monthly by State of California.

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63,424 14,262 165

Page 5-29 2001 Kern Fan Area Operations and Monitoring Report

Kern Fan Monitoring Committee Analysis of Salt Load Imported to Basin With Recharge Water Supplies

Year - 2000		anuary		F	ebruary		N	March			April			May			June			July		A	August		Sep	tember	$\overline{}$	Oc	tober		N	ovembe	r	De	cember		Total	ls
1	Gross	W. Q.	Salt	Gross	W. Q.	Salt	Gross	W. Q.	Salt	Gross	W. Q.	Salt	Gross	W. Q. S	Salt	Gross	W. Q.	Salt	Gross	W. Q.	Salt	Gross	W. Q.	Salt	Gross	W. Q	Salt	Gross V	W. Q.	Salt	Gross	W. Q.	Salt	Gross		Salt	Gross	Salt
Recharge Project/	Recharge			Recharge	TDS	Load							Recharge		oad	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge			Recharge 1	TDS	Load				Recharge	TDS	Load	Recharge	Load
Water Source	(AF)	(mg/l)	(tons)	(AF)	(mg/1)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l) (t	ons)	(AF)	(mg/1)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l) ((tons)	(AF)			(AF) (1									(AF)	
					· · · · · · · · · · · · · · · · · · ·												<u> </u>	`								· · · · · ·	$-\uparrow$				` _				\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			(1111)
Berrenda Mesa			l												- 1			i									- 1			- 1								- 1
SWP	0	295	0	0	250	o	0	187	0	0	206	0	0	239	0	0	239	o	0	189	0	0	213	0	0	164	0	0	248	ol	0	262	0	0	301	ol	0	ol
FK	0	43	0	0	43	0	1,027	43	60	0	43	0	0	43	0	0	43	o	0	43	0	0	43	0	0	43	0	0	43	0	0	43		0	43	0	1,027	60
KR	0	84	0	0	84	ol	0	84	ol	0	84	0	0	84	ol	0	84	o	0	84	0	0	84	0	0	84	ol	0	84	ol	0	84	0	0	84	o	0	0
Totals	0		0	0		ol	1,027		60	0		o	0		0	0		o	0		0	0		0	0		0	0		0	0		0	0		اه	1,027	60
																																				Ť	1,027	
2800 Acres			ı			i			1									- 1																				- 1
SWP	0	295	0	0	250	0	79	187	20	0	206	0	179	239	58	0	239	o	0	189	0	0	213	0	0	164	o	0	248	0	0	262	0	0	301	0	258	78
FK	0	43	0	0	43	0	16,958	43	991	968	43	57	12,247	43	716	487	43	28	0	43	0	0	43	0	0	43	0	0	43	0	0	43		0	43	ő	30,660	1 792
KR	0	84	ol	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	ol	0	84		ő	84	ان	0	1,772
Totals	0		0	0	-	اه	17,037		1,011	968		57	12,426		774	487		28	0		0	0		اه	0		ol	0		ŏ	0		0	Ô	0.	ام	30,918	1.870
	<u> </u>					<u>`</u>	17,057		.,				,									-					1			Ť			·			-	30,710	1,070
Kern Water Bank	1		- 1			- 1						- 1			1			- !																				
SWP	224	295	90	4,896	250	1,664	14,002	187	3,559	0	206	ol	0	239	اه	0	239	0	0	189	0	0	213	0	0	164	ol	0	248	0	333	262	119	0	301	ام	19,455	5.430
FK	0	43	0	0	43	1,001	7,448	43	435	0	43	ő	676	43	40	Ů	43	ol	0	43	0	0	43	ان	0	43	0	0	43	اه	0	43	,	0	43	ار		475
KR	0	84	ان	o o	84	ان	0	84		0	84	o l	0	84	0	Õ	84	0	0	84	ő	0	84	ان	Õ	84	0	0	84	ان	ů.	84	ň	0	84	0	0,124	7/3
Totals	224	01	90	4,896	0.	1,664	21,450	٠.	3,994	0	0.	اه	676	01	40	0	0.	اه	0	01	ő	0	01	ő	Ô	٠.	ان	0	01	ان	333	04	119	0	04		27,579	5 905
- Julio				1,070		1,001	21,130		3,271			Ť						- 			<u>-</u>			-			<u> </u>						- 117			<u>-</u>	21,317	3,903
Pioneer Property						1			- 1						- 1			-												- 1			- 1					1
SWP)	295	- 1	0	250	اه	3,062	187	778	1,472	206	412	1,053	239	342	0	239	اه	0	189	اه	0	213	اه	0	164	اه	0	248	اه	Ω	262	ام	0	301		5,589	1 533
FK	1 6	43	ان	Û	43	ارْ	3,288	43	192	127	43	7	6,050		354	242	43	14	0	43	ام	0	43	ň	Ô	43	ان	n	43	ام	n	43	ار	0	43	ŏ	9,707	567
KR	,	84	۱	0	84	ارْ	0,200	84	1/2	127	84	امُ	0,050	84	الرد	0	84	17	0	84	ň	0	84	ň	0	84	ار	n	84	ار	0	84	Ň	0	84		9,707	307
Totals	2	04	ĭ	0	04	ő	6,350	04	970	1,599	04	420	7,103		696	242	04	14	0	04	γľ	0	07	0	0	04		0	04	ار	0	04	0	0	04		15,296	2 100
Totals						Y	0,330		-7/01	1,377		720	7,103		070	242					$ ^{\prime}$ l			-			-			-4			4			-4	13,290	2,100
Kern River Channel									I			i						i			- [- 1														- 1
SWP		295	ام	0	250	ام	0	197		0	206	ام	0	239		0	239	ام	0	189	ام	0	213		0	164		0	248		0	262	ام	0	201		0	
FK		43	\ \	0	43		3,858	187	225	215	43	13	0	43		0	43	ď	0	43	ď	0	43	0	0	43		0	43		0	43	0	0	301	ار	•	220
KR			\ \	0	84	\ \	2,020	43	223		43 84	13	0			0	84		0	84	VI	0	43 84		0	43 84		0	84		0		0	Û	43	ال	4,073	238
Totals		84	\doldright{\lambda}{\doldright{\lambda}{\doldright{\lambda}{\doldright{\doldr	0	54	VI.	2050	84	225	0	ō 4	.,	0	84	V	0	84	ال	0	ō4	U	0	84		0	04		0	84	0	0	84	0	0	84	ار	4.073	220
lotais	L0			U			3,858		225	215		13			U				0					U	- 0		U]				<u> </u>		U	0		0	4,073	238

Water Quality Data Sources: SWP - Table 32 of State Water Project Operations Data published monthly by State of California.

FK - 43 mg/l represents average of 10 samples collected by KCWA between Nov 94 and Feb 02 (range 19 mg/l to 112 mg/l).

KR - 84 mg/l represents average of 52 samples collected by KCWA & Olcese between Mar 90 and Sep 97 (range 38 mg/l to 148 mg/l).

2001 Kern Fan Area Operations and Monitoring Report

Kern Fan Monitoring Committee Analysis of Salt Load Imported to Basin With Recharge Water Supplies

Year - 2001	T	January		I	February	,	1	March			April]	May		l -	June			July			August		Se	ptembe	Г	0	ctober		No	ovember		De	ecember	$\overline{}$	Tota	als
İ		W. Q.					Gross	W. Q.	Salt	Gross	W. Q.	Salt	Gross							W. Q.	Salt	Gross						Gross			Gross				W. Q.		Gross	
Recharge Project/	Recharge	TDS	Load	Recharge	e TDS	Load	Recharge	TDS I	Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	TDS	Load	Recharge	Load
Water Source	(AF)	(mg/l)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l)_(t	tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l)	(tons)	(AF)	(mg/l) ((tons)	(AF)	(tons)
											-																										1	
Berrenda Mesa																																					ı	
SWP	0	374	0	0	337	0	0	280	0	0	275	0	0	239	0	0	227	0	0	291	0	0	245	0	0	323	0	0	365	0	0	333	0	0	310	0	0	0
FK	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	0
KR	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	0
Totals	0		0	0	ı	0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0	0
																																					1	
2800 Acres	1								ļ																											-	ı	
SWP	0	374	0	0	337	0	2,539	280	966	0	275	0	0	239	0	0	227	0	0	291	0	0	245	0	0	323	0	0	365	0	0	333	0	0	310	0	2,539	966
FK	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	0
` KR	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	0
Totals	0		0	0		0	2,539		966	0		0	0		0	0		0	0		0	0		0	0		0	_ 0		0	0		0	0		0	2,539	966
																														ĺ				_				
Kern Water Bank			- 1						i												}				!													,
SWP	0	374	0	0	337	0	10,030	280 3	3,817	0	275	0	0	239	0	0	227	0	0	291	0	0	245	0	0	323	0	0	365	0	0	333	0	0	310	0	10,030	3,817
FK	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	0
KR	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	0
Totals	0		0	0		0	10,030	3	3,817	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	. 0		0	10,030	3,817
Pioneer Property			l																																			
SWP	0	374	0	0	337	0	1,253	280	477	0	275	0	0	239	0	0	227	0	0	291	0	0	245	0	0	323	0	0	365	0	0	333	0	0	310	0	1,253	477
FK	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	0
KR	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	84	0	0	0
Totals	0		0	0		0	1,253		477	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	0		0	1,253	477
																			,																			
Kern River Channel																		- 1															1					
SWP	o	374	ol	0	337	ol	139	280	53	0	275	0	0	239	0	0	227	0	0	291	o	0	245	0	0	323	0	0	365	0	0	333	0	0	310	0	139	53
FK	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	0	43	0	1,262	43	74	0	43	0	0	43	0	1,262	74
KR	1 0	84	ol	0	84	0	0	84	0	0	84	0	0	84	0	0	84	o	0	84	o	0	84	o	0	84	0	0	84	0	8	84	1	805	84	92	813	93
Totals	0	_	o	0		0	139		53	0		0	0		0	0		0	0		0	0		0	0		0	1,262		74	8		1	805		92	2,214	219

Water Quality Data Sources: SWP - Table 32 of State Water Project Operations Data published monthly by State of California.

FK - 43 mg/l represents average of 10 samples collected by KCWA between Nov 94 and Feb 02 (range 19 mg/l to 112 mg/l).

KR - 84 mg/l represents average of 52 samples collected by KCWA & Olcese between Mar 90 and Sep 97 (range 38 mg/l to 148 mg/l).

Page 5-31 2001 Kern Fan Area Operations and Monitoring Report

CHAPTER 5 SECTION D

KERN FAN MONITORING COMMITTEE RECOVERY SUMMARY AND SALT CONTENT

Quantities in acre-feet except where noted Year: Salt Recoverd TDS WELL JAN FEB MAR MAY APR JUN JUL AUG SEP OCT NOV DEC TOTAL TDS (mg/l) (tons) (tons/af) KCWA 1 1.757 0.34 KCWA 2 1.763 0.23 KCWA 3 1,894 0.27 KCWA 4 1,761 0.20 KCWA 5 1,815 0.20 KCWA 7 1.884 0.29 KCWA 8 2,163 0.39 KCWA 9 1,884 0.29 KCWA 10 1,787 0.38 Olcese 1 2,210 0.29 Olcese 2 2,277 0.23 Olcese 3 2,291 0.27 Olcese 4 2,758 0.27 Olcese 5 2,741 0.30 Olcese 6 2,581 0.27 Olcese 7 2,404 0.29 Olcese 8 2.301 0.22 TOTAL 3:427 6,478 5,865 45,970 4,001 36,271 10,093 0.28 * See "Salt Load Summary.xls" for determination of TDS of recharged water.

Kern Fan Monitoring Committee Berrenda Mesa Project Recovery Summary and Salt Content

Quantities in acre-feet except where noted Year: Salt Recoverd TDS WELL JAN FEB MAR APR MAY JUN JUL AUG NOV SEP OCT DEC TOTAL TDS (mg/l) (tons) (tons/af) BK 1 2,071 0.20 BK 2 1,721 0.19 вк з 2,185 0.20 BK 4 1,984 0.31 **BK** 5 2,073 0.22 BK 6 2,377 0.18 BK 7 1,175 0.31 BK8 2,180 0.42 BK 9 **BK 10** 1.114 0.33 BK 11 1,015 0.29 **BK 12** 0.27 BM 1 2.352 0.15 BM 3 1,966 0.16 TOTAL 3,137 3,442 4.359 2,746 4.317 2,172 1.264 22,918 5,499 0.24 * See "Salt Load Summary.xls" for determination of TDS of recharged water. TDS (tons/af) of recharged water* 0.14

ratio of salt removed/salt loaded

Kern Fan Monitoring Committee Kern Water Bank Recovery Summary and Salt Content

	Quantiti	es in acr	e-feet ex	cept wh	ere note	d									Year:	2001
WELL	JÄN	FEB	MAR	APR.	MAY	NUL	JUL	AUG	SÉP	ОСТ	NOV	DEC	TOTAL	TDS (mg/l)	Salt Recoverd. (tons)	TDS (tons/af)
30S/24E-24A01	l 0	o	o	41	137	185	186	182	77	0	ارا	40	20.4			
30S/25E-03Q01	l ői	ŏ	ő	0	137	0	8	370	168	0	0	16	824	650	728	0.88
30S/25E-04L01	ا ا	ő	126	389	396	376	381	370	0	0	0	0	546	300	223	0.41
30S/25E-05K01	0	ol	0	155	410	392	398	390	ő	0	0	0	2,040 1,745	250	693	0.34
30S/25E-06K01	0	ol	223	476	465	463	468	468	206	0	0	0	2.769	131	311	0.18
30S/25E-07G01	0	o	224	478	469	469	483	478	208	0	0	0		140	527	0.19
30S/25E-07P01	0	0	12	229	217	202	197	191	83	0		0	2,809	200	764	0.27
30S/25E-07R01	ا ا	ol	135	267	254	235	231	223	97	0		· •	1,131	310	477	0.42
30S/25E-08F01		ő	150	315	310	298	301	300	132	0		0	1,442	340	666	0.46
30S/25E-08J01	ا ا	ol	171	282	267	242	233	220	102	0		0	1,806	390	957	0.53
30S/25E-08P01	ا ا	ol	52	281	233	231	227	217	93	0	0	0	1,517	140	289	0.19
30S/25E-09A01	ا ا	ol	30	320	216	291	289	266	130	0	0	0	1,334	200	363	0.27
30S/25E-09J01	ا ا	ol	135	294	358	326	320	303	85	0	0	44	1,542	300	629	0.41
30S/25E-09L01	ا ا	ol	189	333	334	305	312	307	134	0	0	71	1,865	320	811	0.43
30S/25E-10K01	ا ا	ŏl	0	0	0	0	312	307	134	0	0	0	1,985	320	863	0.43
30S/25E-11A01	ا ما	ŏl	ől	õ	ol	286	303	296	128	0	0	78	1,091	290	0	0.47
30S/25E-11C01	0	ol	ol	0	ől	200	0	230	120	0	0	79	79	127 530	188 57	0.17
30S/25E-11E01	0	0	0	Õ	اه	ŏl	ő	ő	0	0	0	13	13	270	5/	0.72
30S/25E-11L01	0	0	ol	0	0	ol	ő	ől	ام	Ô	0	0	0	285	0	0.37
30S/25E-11N01		ol	ol	0	اه	ol	ام	ő	ň	0	ő	56	56	380	*1	0.50
30S/25E-11Q01		ol	ol	0	ol	ol	ol	0	ň	0	0	0	0	350	29	0.52
30S/25E-12C01	l ol	o	ol	0	o	ol	ŏ	ol.	ő	Ô	0	0	0	450	0	- 1
30S/25E-13L01	0	0	0	0	ol	ŏl	ol	ől	ŏ	Õ	ol	ő	0	140	0	
30S/25E-14E01	0	0	0	0	0	ol	230	539	243	Õ	ا م	144	1,156		518	0.45
30S/25E-14J01	0	0	169	438	433	425	432	425	196	o	اة	100	2,618	90	320	0.43
30S/25E-14N01	0	0	133	316	321	298	281	229	118	0	اة	68	1,764	130	312	0.12
30S/25E-14Q01		0	0	0	o	. 0	0	0	0.	Ô	ol	0	0,704	94	0	0.10
30S/25E-14R01		ol	37	289	289	272	274	266	128	0	ő	66	1,621	140	308	0.19
30S/25E-15B01	0	o	183	292	318	319	322	307	0	0	اهٔ	0	1,741	230	544	0.19
30S/25E-15C01		0	183	311	319	323	329	317	ol	0	ő	0	1.782	270	654	0.37
30S/25E-15N01	0	0	38	230	176	123	0	0.7	ő	0	ő	39	606	170	140	0.37
30S/25E-15Q01		0	50	341	330	314	316	286	ol	0	ol	0	1,637	200	445	0.23
30S/25E-15R01	0	0	0	0	0	0	88	202	101	Ö	ŏ		461	190	119	0.27

Kern Fan Monitoring Committee Kern Water Bank **Recovery Summary and Salt Content**

	Quantitie	es in acr	e-feet ex	cept wh	ere note	d									Year;	2001
WELL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	TOTAL	TDS (mg/l)	Salt Recoverd (tons)	TDS (tons/af)
30S/25E-16B01		0	o	0	303	335	307	278	140	0	0	0	1.363	180	333	0.04
30S/25E-16D01	0	0	0	0	447	397	383	358	153	ő	0	ő	1,738		661	0.24 0.38
30S/25E-16F01		0	75	274	278	270	273	267	117	Ö	٥	ő	1,750	310	655	0.36
30S/25E-16J01	0	0	0	0	200	181	183	173	86	0	Ö	53	876	170	202	0.42
30S/25E-16M01	0	0	0	0	0	0	340	393	182	0	ا ا	109	1.024	200	278	0.23
30S/25E-16P01	0	0	168	293	276	284	295	285	134	0	0	75	1.810	210	517	0.27
30S/25E-16R01	0	0	170	283	254	241	236	214	0	0	Ö	. 0	1,398	180	342	0.29
30S/25E-17F01	0	0	134	285	280	269	271	269	118	0	ő	0	1,626	270	597	0.24
30S/25E-17H01		0	0	0	670	701	656	702	324	0	ő	172	3,225	250	1,096	0.37
30S/25E-17J01	0	0	0	0	713	697	629	672	309	0	ő	159	3,179	170	734	0.34
30S/25E-17M01	0	0	0	0	0	0	0	0	0	0	ő	0	0,170	190	1 7 0	0.23
30S/25E-17P01	0	0	328	599	589	553	561	550	253	0	ő	129	3,562	180	871	0.24
30S/25E-18A01		0	102	239	230	209	199	192	84	0	0	0	1,255	350	597	0.24
30S/25E-18C01	0	0	14	276	260	273	273	269	118	0	ő	0	1,233	300	605	
30S/25E-18K01	0	0	o	0	0.	0	ol	0	0	0	0	0	1,403	360	0	0.41
30S/25E-18P01	0	0	0	336	383	389	371	397	172	0	ő	91	2,139	350	1,017	0.40
30S/25E-18R01	0	0	0	292	342	338	344	340	148	0	ŏ	82	1,886	210	538	0.48 0.29
30S/25E-19P01		0	0	0	0	ol	0	0	0	0	ő	0.	0,000	1190	0	0.29
30S/25E-20A01		0	232	442	428	432	442	437	189	0	٥	89	2.691	240	878	0.33
30S/25E-20C01	0	0	252	433	404	430	437	425	184	0	0	0.	2,565	170	593	0.33
30S/25E-20L01	0	0	281	513	508	475	480	469	202	0	٥	113	3.041	290	1,199	0.23
30S/25E-21A02	0	0	178	303	277	236	227	215	67	0	ő	66	1.569	170	363	0.39
30S/25E-21D01	0	0	346	590	575	532	534	519	225	0	ő	126	3,447	200	937	0.23
30S/25E-21G01		0	205	382	115	375	382	378	77	Ö	Ö	88	2,002	190	517	0.27
30S/25E-23B01	0	0	0	0	0	0	0	o	0	0	Ö	0	0	120	317	0.20
30S/25E-23H01		0	21	261	256	241	240	230	0	0	0	o:	1,249	130	221	0.18
30S/25E-24J01	0	0	0	0	0	0	0	0	0	0	0	ا	0	170	221	0.10
30S/25E-36D01	이	0	0	0	0	284	349	183	0	0	0	0	816	230	255	0.31
30S/26E-06N01		0	ol	0	0	o	ol	304	58	0	o	95	457	480	298	0.65
30S/26E-07J01	0	0	0	0	0	ol	ol	0	0	0	oi	0	0	180	290	0.65
30S/26E-07N01		0	0	0	0	o	0	ol	o	0	ŏ	ő	0	200		
30S/26E-18D01	0	0	0	0	0	0	0	o	0	0	ő	ő	n	170		
30S/26E-19M01	0	0	0	0	276	345	352	347	150	0	0	ő	1,470		340	0.23
30S/26E-20L01	0	0	0	0	406	418	425	416	176	0	ا ا	ő	1,841	210	525	0.23
30S/26E-20N02	0	0	0	0	340	367	376	366	0	ő	ŏ	0	1,449	150	295	0.29
TOTAL	0	0			15,062	15,647	16174	16,802	6.095	0			88,695		27,403	0.20
* See "Salt Load S	ummary.	xis" for c	tetermina	ation of	TDS of re	echarged	water.							s/af) of recha		G.18
													ratio of	salt removed	/salt loaded	1.8

Kern Fan Monitoring Committee Pioneer Property Recovery Summary and Salt Content

BOXES NO BY INCOME	Quantiti	es in acr	e-feet ex	cept wh	ere notec	1					1110.75				Year:	2001
WELL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	TOTAL	TDS (mg/l)	Salt Recoverd (tons)	TDS (tons/af)
KCWA 6	0	0	99	351	346	316	325	321	138	138	14	0	2,048	240	668	0.22
KCWA 11	0	167	113	427	419	359	353	344	151	145	132	373	2,983	270	1,095	0.33 0.37
KCWA 12		0	124	316	284	246	250	235	110	0	0	0.0	1,565	310	659	0.42
KCWA 13	0	0	112	276	237	215	216	202	91	ol	o	ő	1,349	290	532	0.39
KCWA 14	0	0	0	0	10	404	404	391	169	164	239	276	2,057	270	755	0.33
KCWA 15		0	l ol	0	10	401	402	390	169	161	207	399	2,139	240	698	0.37
KCWA 16	0	. 0	o	0	7	403	405	397	172	170	245	436	2,235	278	845	0.38
KCWA 17	0	0	0	0	7	379	377	366	158	156	222	0	1,665	270	611	0.37
KCWA 18	0	0	o	0	22	413	418	412	178	174	44	347	2,008	200	546	0.37
KCWA 19	0	0	0	0	91	402	405	398	172	170	226	0	1.864	242	613	0.33
KCWA 20	이	0	0	0	91	406	409	401	173	168	43	0	1,691	216	496	0.29
KCWA 21	0	0	0	0	0	193	365	370	157	0	o	0	1,085	230	339	0.31
KCWA 22	0	0	0	0	0	20	403	397	166	0	0	ol	986	170	228	0.23
KCWA 23	0	0	0	0	0	0	157	409	166	o	ol	o	732	190	189	0.26
KCWA 24	이	0	0	0	0	0	150	390	159	0	0	o	699	170	161	0.23
REHAB 1	0	0	0	249	407	364	367	360	156	0	0	0	1,903	260	672	0.35
REHAB 2	이	. 0	이	260	425	374	379	371	161	0	0	0	1,970		696	0.35
REHAB 3		0		185	410	378	128	0	0	0	0	0	1,101	170	254	0.23
REHAB 4	0	0	0	183	403	374	236	81	0	0	0	0	1,277	130	226	0.18
REHAB 5	0	0	이	166	393	365	82		0	o	0	0	1,006		246	0.24
REHAB 6	0	0	35	340	360	288	125	0	0	0	o	0	1,148		273	0.24
3B1	0	0	0	0	110	33	181	245	51	0	0	0	620		160	0.26
4B1	이	0	0	77	168	191	106	162	33	0	0	0	737	220	220	0.30
4E1	이	0	0	0	0	이	49	132	46	0	0	0	227	230	71	0.31
4L1	이	0	이	0	0	이	0	0	0	0	0	0	0	180	ol	
11D1	0	0	이	166	236	187	84	0	0	0	0	0	673	270	247	0.37
11P1	이	0	0	189	259	274	86	0	0	0	0	ol	808	280	307	0.38
12D1	이	0	0	293	354	322	198	3	0	0	0	0	1,170	160	254	0.22
12N1	0	0	0	211	365	274	124	0	0	0	0	0	974	170	225	0.23
CBK 40	3K 40 0 0 11 242 229 197 194 195 187 0 0 0 1,255 76 130 0.10															
TOTAL	TAL 0 167 494 3,931 5,643 7,778 7,378 6,972 2,963 1,446 1,372 1,831 39,975 - 12,417 0.31															
See "Salt L	Load Sun	nmary.xl	is" for de	terminat	ion of TD	S of rec	narged v	vater.						s/af) of recha salt removed		0.14

Quantities in acre-feet except where noted Year: 2001

															Salt	2001
WELL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	TOTAL	TDS (mg/l)	Recoverd (tons)	TDS (tons/af)
11D1	0			400	000	407										
11P1		0	1 1	166	236		84	0	0	0	0	0	673		247	0.37
12D1	0	0	0	189	259	274	86	0	이	. 0	0	0	808		307	0.38
12N1	0	0	0	293	354	322	198	3	0	0	0	0	1,170			0.22
3B1	0	0	0	211	365	274	124	0	0	0	0	0	974	1		0.23
	0	U	0	0	110		181	245	51	0	0	0	620		160	0.26
4B1	0	0	0	77	168		106		33	0	0	0	737	220	220	0.30
4E1	0	0	0	0	0	0	49	132	46	0	0	0	227	230	71	0.31
4L1	0	0	이	0	0	0	0	0	0	0	0	0	0	180	lol	
BK 1	0	0	148	345	339	318	322	237	0	221	141	0	2,071	150	422	0.20
BK 2	0	0	156	383	378	357	54	0	0	241	152	0	1,721	140	327	0.19
BK 3	0	0	160	372	367	278	362	278	0	229	139	0	2,185	150	445	0.20
BK 4	0	0	100	351	366	333	217	252	0	215	150	0	1,984	230	620	0.31
BK 5	0	0	88	331	352	335	353	267	0	209	138	0	2,073			0.22
BK 6	0	0	97	377	402	382	399	304		254	162	0	2,377	1		0.18
BK 7	0	0	0	0	0	461	470	244	0	0	0	ol	1,175		1	0.31
BK 8	0	0	0	394	444	401	399	207	0	184	151	0	2,180			0.42
BK 9	0	0	0	0	0	0	0	0	0	0	0	0	0	1		• • • • • • • • • • • • • • • • • • • •
BK 10	0	0	0	0	87	410	406	211	l ol	0	0	0	1,114	1	1	0.33
BK 11	0	0		0	106	356	370	183	l ol	0	0		1,015			0.29
BK 12	0	0		0	0	153	363	189	0	0	0	Ö	705	1	194	0.27
BM 1	0	0	100	321	322	308	321	200	330	328	122	0	2,352		1	0.15
BM 3	0	0	57	263	279	267	281	174	245	291	109		1,966			0.16
CBK 40	0	0	11	242	229	197	194	195	187	0	0	o	1,255			0.10
KCWA 1	0	152	63	246	295	294	295	287	125	0	0	0	1,757		1	0.10
KCWA 10	0	0	90	348	338	299	297	289	126	0	Ö	ő	1,787		I	0.34
KCWA 11	0	167	113	427	419	359	353	344	151	145	132	373	2,983		1	0.36
KCWA 12	l ő	0	124	316	284	246	250	235	110	0	0	3/3	1,565			0.37
KCWA 13	0	l ő	112	276	237	215	216	202	91	0	ľő		1,349	1		0.42
KCWA 14	0	l ő	0	0	1	404	404	391	169	164	239		2,057			0.39
KCWA 15	0		1 1	0	1					161	1					I
	, ,		, ,		10	1 701	702	1 530	109	101	201	399	2,139	1 240	098	0.33

Quantities in acre-feet except where noted Year: Sait Recoverd TOS WELL JAN FEB MAR. APR MAY JUN JUL AUG SEP OCT NOV DEC TOTAL TDS (mg/l) (tons) (tons/af) KCWA 16 2,235 0.38 KCWA 17 1.665 0.37 KCWA 18 2.008 0.27 KCWA 19 1,864 0.33 KCWA 2 0.23 1,763 KCWA 20 1,691 0.29 KCWA 21 1,085 0.31 KCWA 22 0.23 KCWA 23 0.26 KCWA 24 ol 0.23 KCWA 3 1.894 0.27 KCWA 4 1,761 0.20 KCWA 5 1.815 0.20 KCWA 6 2.048 0.33 KCWA 7 1,884 0.29 KCWA 8 2,163 0.39 KCWA 9 0.29 1,884 Olcese 1 2,210 0.29 Olcese 2 2.277 0.23 Olcese 3 2,291 0.27 Olcese 4 2,758 0.27 Olcese 5 2,741 0.30 Olcese 6 2,581 0.27 Olcese 7 2.404 0.29 Olcese 8 2,301 0.22 REHAB 1 1,903 0.35 REHAB 2 1,970 0.35 REHAB 3 ol 1.101 0.23 REHAB 4 1,277 0.18 REHAB 5 393 l ol 0.24 1,006 180 l

Quantities in acre-feet except where noted Year: 2001

											(二)		STATE OF		Salt	有种的
WELL	JAN	FEB	MAR	APR	AMAN								1		Recoverd	TDS
	UMIN	TEB	WAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	TDS (mg/l)	(tons)	(tons/af)
REHAB 6	0	0	35	340	360	288	125	0	0	0	_		4.440			
30S/24E-24A01	Ĭŏ	0	0	41	137	185	186	182	77	0	0	0	1,148	175	273	0.24
30S/25E-03Q01	Ĭ	ő	ا م	0	0.	0	8	370	168	0	0	16	824	650	728	0.88
30S/25E-04L01	ő	0	126	389	396	376	381	370	0	0	"	0	546	300	223	0.41
30S/25E-05K01	ő	ő	120	155	410	392	398	390	0	0	0	0	2,040	250	693	0.34
30S/25E-06K01	Ö	Ő	223	476	465	463	468	468	206	0	0	0	1,745	131	311	0.18
30S/25E-07G01	ŏ	Ő	224	478	469	469	483	478	208	0	0	0	2,769	140	527	0.19
30S/25E-07P01	o	o.	12	229	217	202	197	191	83	0	0	0	2,809	200	764	0.27
30S/25E-07R01	ا أ	ő		267	254	235	231	223	97	0	0	0	1,131	310	477	0.42
30S/25E-08F01	ا ا	ő	150	315	310	298	301	300	132	0	0	0	1,442 1,806	340	666	0.46
30S/25E-08J01	اً ا	ő	171	282	267	242	233	220	102	0	0	0		390	957	0.53
30S/25E-08P01	0	ő	52	281	233	231	227	217	93	0	0	0	1,517 1,334	140	289	0.19
30S/25E-09A01	0	0	30	320	216	291	289	266	130	0	0	0	1,542	200 300	363 629	0.27
30S/25E-09J01	0	0	135	294	358	326	320	303	85	0	0	44	1,865	320	811	0.41
30S/25E-09L01	0	ا ا	189	333	334	305	312	307	134	0	0	71	1,985	•		0.43
30S/25E-10K01	0	0	0	0	0	0	0	0	0	0	0	0	0,905	320 290	863	0.43
30S/25E-11A01	o	0	ا ا	ol	0	286	303	296	128	0	0	78	1,091	127	188	0.17
30S/25E-11C01	0	0	0	Ö	o	0:	0	200	0	0	0	79	79	530	57	0.17
30S/25E-11E01	o	0	0	0	0	o	0	ا م	n	0	0	13	13	270	57	0.72
30S/25E-11L01	0	0	ol	0	0	0	ő	ا م	ñ	0	Ó	0	0	285	0	0.37
30S/25E-11N01	0	0	0	0	0	0	o	ا م	ő	0	ő	56	56	380	1 1	0.52
30S/25E-11Q01	0	0	0	0	0	0	0	ا م	ام	0	Ô	0	0	350	0	0.52
30S/25E-12C01	0	0	0	0	0	0	0	ő	ol	Õ	ő	ő	0	450		
30S/25E-13L01	0	0	o	0	0	0	0	ol	ŏ	Ö	Ŏ	ő	0	140	0	
30S/25E-14E01	0	0	0	0	0	o	230	539	243	Ö	0	144	1,156	330	518	0.45
30S/25E-14J01	0	0	169	438	433	425	432	425	196	0	0	100	2,618	90	320	0.12
30S/25E-14N01	0	. 0	133	316	321	298	281	229	118	0	0	68	1,764	130	1 1	0.12
30S/25E-14Q01	0	0	0	0	0	0	0	0	0	0	0	0	1,704	94	0	0.10
30S/25E-14R01	0	0	37	289	289	272	274	266	128	0	ő	66	1,621	140	1 1	0.19
30S/25E-15B01	0	0		292	318	319		307	0	0	0	0	1,741	I -		0.31

Quantities in acre-feet except where noted

Year: 2001

SANGER OF THE													分别是		Salt	
WELL	IANE	550	****												Recoverd	TDS
VVCLL	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	TDS (mg/l)	(tons)	(tons/af)
30S/25E-15C01	o	0	102	244	240	200	200	0.47								
30S/25E-15N01	0	0	183	311	319	323	329	317	0	0	0	0	1,782	270	654	0.37
30S/25E-15N01	ľ	0	38	230	176	123	0	0	0	0	0	39	606	170	140	0.23
30S/25E-15Q01	0	0	50	341	330	314	316	286	0	0	0	0	1,637	200	445	0.27
30S/25E-16B01	0	0	0	0	0	0	88	202	101	0	0	70	461	190	119	0.26
30S/25E-16D01	0	0		0	303	335	307	278	140	0	0	0	1,363	180	333	0.24
30S/25E-16F01	0	0	· ·		447	397	383	358	153	0	0	0	1,738	280	661	0.38
30S/25E-16J01	ĭ	0	75	274	278	270	273	267	117	0	0	0	1,554	310	655	0.42
30S/25E-16J01	0	0	0	0	200	181	183	173	86	0	0	53	876	170	202	0.23
30S/25E-16P01	0	0	0.	0	0	0	340	393	182	0	0	109	1,024	200	278	0.27
30S/25E-16R01	0	. 0	168	293	276	284	295	285	134	0	0	75	1,810	210	517	0.29
	0	0	170	283	254	241	236	214	0	0	0	0	1,398	180	342	0.24
30S/25E-17F01	0	0	134	285	280	269	271	269	118	0	0	0	1,626	270	597	0.37
30S/25E-17H01	0	0	0	0	670	701	656	702	324	0	0	172	3,225	250	1,096	0.34
30S/25E-17J01	0	. 0	0	0	713	697	629	672	309	0	0	159	3,179	170	734	0.23
30S/25E-17M01	0	0	0	0	0	0	0	0	0	0	0	0	0	190	0	
30S/25E-17P01	0	0	328	599	589	553	561	550	253	0	0	129	3,562	180	871	0.24
30S/25E-18A01	0	0	102	239	230	209	199	192	84	0	0	0	1,255	350	597	0.48
30S/25E-18C01	0	0	14	276	260	273	273	269	118	0	0	0	1,483	300	605	0.41
30S/25E-18K01	0	0	0	0	0	0	0	0	0	0	0	0	0	360	0	
30S/25E-18P01	0	0	0	336	383	389	371	397	172	0	0	91	2,139	350	1,017	0.48
30S/25E-18R01	0	0	0	292	342	338	344	340	148	0	0	82	1,886	210	538	0.29
30S/25E-19P01	0	0	0	0	0	0	0	0	0	0	0	0	0	1190	0	
30S/25E-20A01	0	0	232	442	428	432	442	437	189	0	0	89	2,691	240	878	0.33
30S/25E-20C01	0	. 0	252	433	404	430	437	425	184	0	0	0	2,565	170	593	0.23
30S/25E-20L01	0	0	281	513	508	475	480	469	202	0	0	113	3,041	290	1,199	0.39
30S/25E-21A02	0	0	178	303	277	236	227	215	67	0	0	66	1,569	170	363	0.23
30S/25E-21D01	0	0	346	590	575	532	534	519	225	0	0	126	3,447	200	937	0.27
30S/25E-21G01	0	0	205	382	115	375	382	378	77	0	0	88		190	517	0.26
30S/25E-23B01	0	0	0	0	0	0	0	0	0	0	0	0	0	120	o	
30S/25E-23H01	0	0	21	261	256	241	240	230	0	0	0	0	1,249	I .	221	0.18

ratio of TDS of recovered water to recharged water

Kern Fan Monitoring Committee All Projects Recovery Summary and Salt Content

Quantities in acre-feet except where noted Year: 2001 Salt Recoverd TDS WELL JAN FEB MAR APR JUN JUL AUG MAY SEP NOV DEC OCT TOTAL TDS (mg/l) (tons) (tons/af) 30S/25E-24J01 0 30S/25E-36D01 284 349 183 0 816 230 255 0.31 30S/26E-06N01 58 95 304 457 480 298 0.65 30S/26E-07J01 0 180 30S/26E-07N01 200 30S/26E-18D01 0 0 0 170 30S/26E-19M01 276 345 352 150 0 347 0 1,470 170 340 0.23 30S/26E-20L01 406 418 425 416 176 0 525 0.29 1.841 210 30S/26E-20N02 340 367 376 366 1.449 150 295 0.20 TOTAL 7,025 25,373 30,625 33,649 33,889 32,442 13,634 896 3,618 2,636 4,122 187,859 55,412 0.29 * See "Salt Load Summary.xls" for determination of TDS of recharged water. TDS (tons/af) of recharged water 0.16